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(54) Title: **BIARYL HETEROCYCLIC COMPOUNDS AND METHODS OF MAKING AND USING THE SAME**

(57) Abstract: The present invention relates generally to the field of anti-infective, anti-proliferative, anti-inflammatory, and prokinetic agents. More particularly, the invention relates to a family of compounds having both a biaryl moiety and at least one heterocyclic moiety that are useful as such agents.



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**BIARYL HETEROCYCLIC COMPOUNDS AND METHODS OF
MAKING AND USING THE SAME**

RELATED APPLICATIONS

This application claims the benefit of and priority to U.S. Patent Application Nos. 60/475,430, filed June 3, 2003; 60/475,453, filed June 3, 2003; 60/490,855, filed July 29, 2003; 60/529,731, filed December 15, 2003; and 60/531,584, filed December 19, 2003, the enclosures
5 of which are incorporated by reference herein.

FIELD OF THE INVENTION

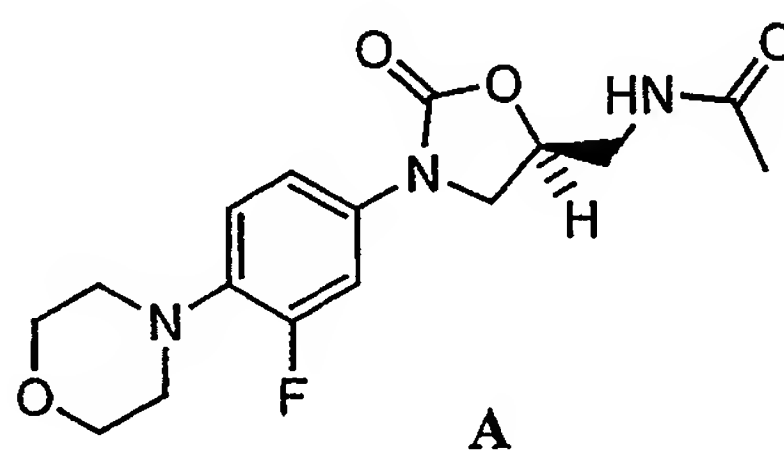
The present invention relates generally to the field of anti-infective, anti-proliferative, anti-inflammatory, and prokinetic agents. More particularly, the invention relates to a family of biaryl heterocyclic compounds, comprising both a biaryl moiety and at least one heterocyclic
10 moiety, that are useful as therapeutic agents.

BACKGROUND

Since the discovery of penicillin in the 1920s and streptomycin in the 1940s, many new compounds have been discovered or specifically designed for use as antibiotic agents. It was once believed that infectious diseases could be completely controlled or eradicated with the use
15 of such therapeutic agents. However, such beliefs have been shaken by the fact that strains of cells or microorganisms resistant to currently effective therapeutic agents continue to evolve. In fact, virtually every antibiotic agent developed for clinical use has ultimately encountered problems with the emergence of resistant bacteria. For example, resistant strains of Gram-positive bacteria such as methicillin-resistant staphylococci, penicillin-resistant streptococci, and
20 vancomycin-resistant enterococci have developed, which can cause serious and even fatal results for patients infected with such resistant bacteria. Bacteria that are resistant to macrolide antibiotics, i.e., antibiotics based on a 14- to 16-membered lactone ring, have developed. Also, resistant strains of Gram-negative bacteria such as *H. influenzae* and *M. catarrhalis* have been identified. See, e.g., F.D. Lowry, "Antimicrobial Resistance: The Example of *Staphylococcus aureus*," *J. Clin. Invest.*, **2003**, 111(9), 1265-1273; and Gold, H.S. and Moellering, R.C., Jr.,
25 "Antimicrobial-Drug Resistance," *N. Engl. J. Med.*, **1996**, 335, 1445-53.

The problem of resistance is not limited to the area of anti-infective agents, because resistance has also been encountered with anti-proliferative agents used in cancer chemotherapy. Therefore, there exists a need for new anti-infective and anti-proliferative agents that are both effective against resistant bacteria and resistant strains of cancer cells.

5 In the antibiotic area, despite the problem of increasing antibiotic resistance, no new major classes of antibiotics have been developed for clinical use since the approval in the United States in 2000 of the oxazolidinone ring-containing antibiotic, N-[(5S)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl acetamide, which is known as linezolid and is sold under the tradename Zyvox® (see compound A). See, R.C. Moellering, Jr.,
10 "Linezolid: The First Oxazolidinone Antimicrobial," *Annals of Internal Medicine*, 2003, 138(2), 135-142.



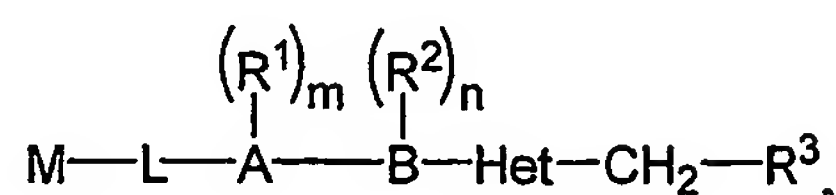
Linezolid was approved for use as an anti-bacterial agent active against Gram-positive organisms. Unfortunately, linezolid-resistant strains of organisms are already being reported.
15 See, Tsiodras *et al.*, *Lancet*, 2001, 358, 207; Gonzales *et al.*, *Lancet*, 2001, 357, 1179; Zurenko *et al.*, *Proceedings Of The 39th Annual Interscience Conference On Antibacterial Agents And Chemotherapy (ICAAC)*; San Francisco, CA, USA, (September 26-29, 1999). Because linezolid is both a clinically effective and commercially significant anti-microbial agent, investigators have been working to develop other effective linezolid derivatives.

20 Notwithstanding the foregoing, there is an ongoing need for new anti-infective and anti-proliferative agents. Furthermore, because many anti-infective and anti-proliferative agents have utility as anti-inflammatory agents and prokinetic agents, there is also an ongoing need for new compounds useful as anti-inflammatory and prokinetic agents.

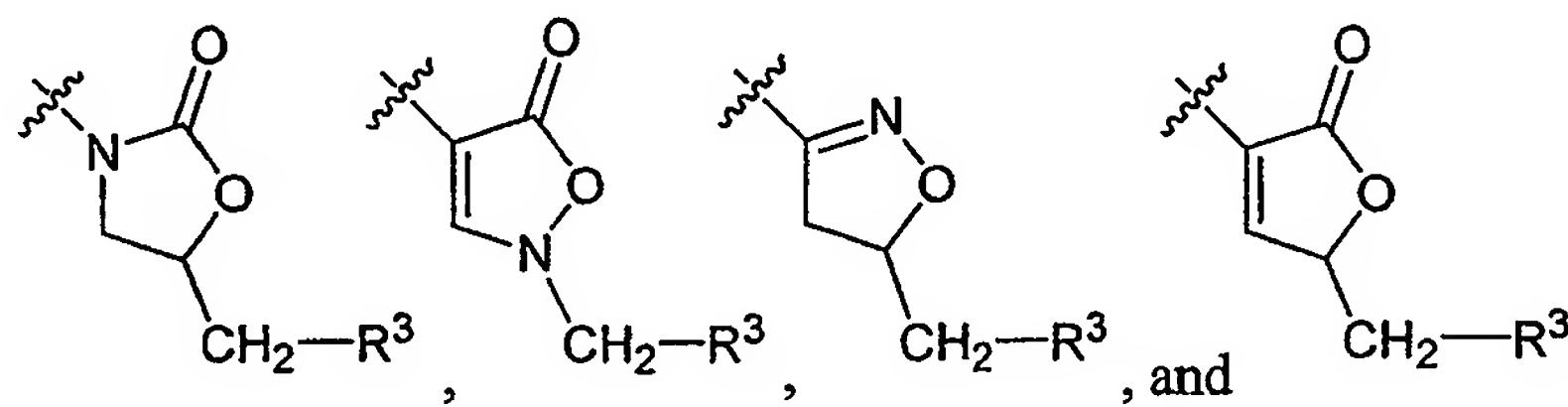
SUMMARY OF THE INVENTION

25 The invention provides a family of compounds useful as anti-infective agents and/or anti-proliferative agents, for example, chemotherapeutic agents, anti-microbial agents, anti-bacterial agents, anti-fungal agents, anti-parasitic agents, anti-viral agents, anti-inflammatory

agents, and/or prokinetic (gastrointestinal modulatory) agents. The compounds have the formula:

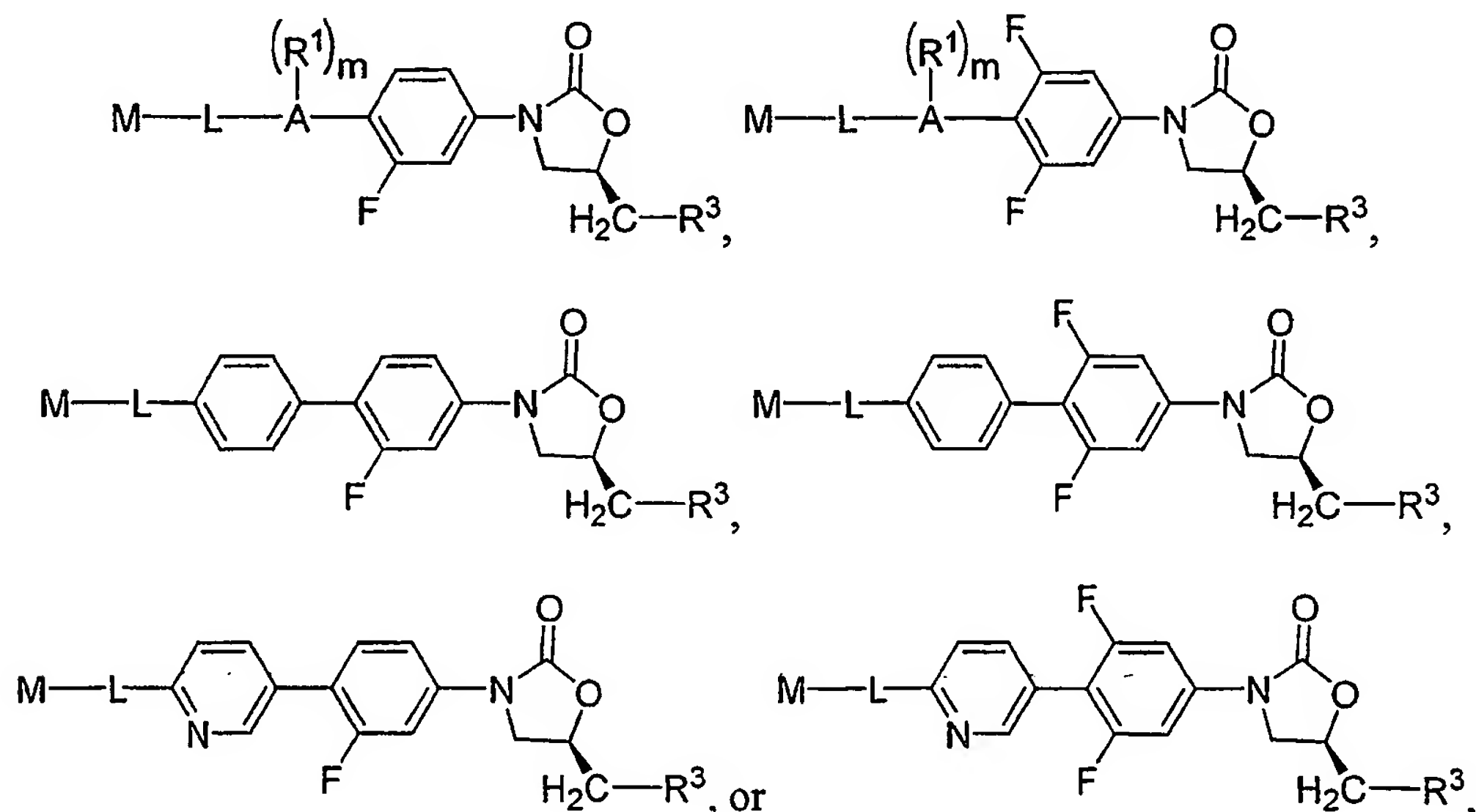


or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein Het-CH₂-R³ is selected
5 from the group consisting of:



A and B independently are selected from the group consisting of phenyl, pyridyl, pyrazinyl, pyrimidinyl, and pyridazinyl; M-L is selected from the group consisting of M-X, M-L¹, M-L¹-X, M-X-L², M-L¹-X-L², M-X-L¹-X-L², M-L¹-X-L²-X, M-X-X-, M-L¹-X-X-, M-X-X-L², and M-L¹-X-X-L²; M is an optionally substituted saturated, unsaturated, or aromatic C₃₋₁₄ carbocycle, or an optionally substituted saturated, unsaturated, or aromatic 3-14 membered heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur; and the variables L¹, L², M, R¹, R², R³, X, m, and n are selected from the respective groups of chemical moieties or integers later defined in the detailed description.

15 Particular embodiments of compounds of the invention include those having the
formula:



wherein the variables A, L, M, R¹, R³, and m are selected from the respective groups of chemical moieties or integers later defined in the detailed description.

In addition, the invention provides methods of synthesizing the foregoing compounds. Following synthesis, an effective amount of one or more of the compounds may be formulated
5 with a pharmaceutically acceptable carrier for administration to a mammal for use as an anti-cancer, anti-microbial, anti-biotic, anti-fungal, anti-parasitic or anti-viral agent, or to treat a proliferative disease, an inflammatory disease or a gastrointestinal motility disorder. The compounds or formulations may be administered, for example, via oral, parenteral, or topical routes, to provide an effective amount of the compound to the mammal.

10 The foregoing and other aspects and embodiments of the invention may be more fully understood by reference to the following detailed description and claims.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a family of compounds that can be used as anti-proliferative agents and/or anti-infective agents. The compounds may be used without
15 limitation, for example, as anti-cancer, anti-microbial, anti-bacterial, anti-fungal, anti-parasitic and/or anti-viral agents. Further, the present invention provides a family of compounds that can be used without limitation as anti-inflammatory agents, for example, for use in treating chronic inflammatory airway diseases, and/or as prokinetic agents, for example, for use in treating gastrointestinal motility disorders such as gastroesophageal reflux disease,
20 gastroparesis (diabetic and post surgical), irritable bowel syndrome, and constipation.

1. Definitions

The term "substituted," as used herein, means that any one or more hydrogens on the designated atom is replaced with a selection from the indicated group, provided that the designated atom's normal valency is not exceeded, and that the substitution results in a stable
25 compound. When a substituent is keto (i.e., =O), then 2 hydrogens on the atom are replaced. Keto substituents are not present on aromatic moieties. Ring double bonds, as used herein, are double bonds that are formed between two adjacent ring atoms (e.g., C=C, C=N, or N=N).

The present invention is intended to include all isotopes of atoms occurring in the present compounds. Isotopes include those atoms having the same atomic number but different
30 mass numbers. By way of general example and without limitation, isotopes of hydrogen include tritium and deuterium, and isotopes of carbon include C-13 and C-14.

The compounds described herein may have asymmetric centers. Compounds of the present invention containing an asymmetrically substituted atom may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis from optically active starting materials.

5 Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present invention. Cis and trans geometric isomers of the compounds of the present invention are described and may be isolated as a mixture of isomers or as separated isomeric forms. All chiral, diastereomeric, racemic, and geometric isomeric forms of a structure are intended,
10 unless the specific stereochemistry or isomeric form is specifically indicated. All processes used to prepare compounds of the present invention and intermediates made therein are considered to be part of the present invention. All tautomers of shown or described compounds are also considered to be part of the present invention.

When any variable (e.g., R^1) occurs more than one time in any constituent or formula
15 for a compound, its definition at each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2 R^1 moieties, then the group may optionally be substituted with up to two R^1 moieties and R^1 at each occurrence is selected independently from the definition of R^1 . Also, combinations of substituents and/or variables are permissible, but only if such combinations result in stable compounds.

20 When a bond to a substituent is shown to cross a bond connecting two atoms in a ring, then such substituent may be bonded to any atom in the ring. When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of a given formula, then such substituent may be bonded via any atom in such substituent. Combinations of substituents and/or variables are permissible, but only if such combinations
25 result in stable compounds.

Compounds of the present invention that contain nitrogens can be converted to N-oxides by treatment with an oxidizing agent (e.g., MCPBA and/or hydrogen peroxides) to afford other compounds of the present invention. Thus, all shown and claimed nitrogen-containing compounds are considered, when allowed by valency and structure, to include both
30 the compound as shown and its N-oxide derivative (which can be designated as $N \rightarrow O$ or N^+-O^-). Furthermore, in other instances, the nitrogens in the compounds of the present invention can be converted to N-hydroxy or N-alkoxy compounds. For example, N-hydroxy compounds can

be prepared by oxidation of the parent amine by an oxidizing agent such as MCPBA. All shown and claimed nitrogen-containing compounds are also considered, when allowed by valency and structure, to cover both the compound as shown and its N-hydroxy (i.e., N-OH) and N-alkoxy (i.e., N-OR, wherein R is substituted or unsubstituted C₁₋₆ alkyl, alkenyl, alkynyl, C₃₋₁₄ carbocycle, or 3-14-membered heterocycle) derivatives.

When an atom or chemical moiety is followed by a subscripted numeric range (e.g., C₁₋₆), the invention is meant to encompass each number within the range as well as all intermediate ranges. For example, "C₁₋₆ alkyl" is meant to include alkyl groups with 1, 2, 3, 4, 5, 6, 1-6, 1-5, 1-4, 1-3, 1-2, 2-6, 2-5, 2-4, 2-3, 3-6, 3-5, 3-4, 4-6, 4-5, and 5-6 carbons.

As used herein, "alkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms. For example, C₁₋₆ alkyl is intended to include C₁, C₂, C₃, C₄, C₅, and C₆ alkyl groups. Examples of alkyl include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, s-butyl, t-butyl, n-pentyl, s-pentyl, and n-hexyl.

As used herein, "alkenyl" is intended to include hydrocarbon chains of either straight or branched configuration having one or more carbon-carbon double bonds occurring at any stable point along the chain. For example, C₂₋₆ alkenyl is intended to include C₂, C₃, C₄, C₅, and C₆ alkenyl groups. Examples of alkenyl include, but are not limited to, ethenyl and propenyl.

As used herein, "alkynyl" is intended to include hydrocarbon chains of either straight or branched configuration having one or more carbon-carbon triple bonds occurring at any stable point along the chain. For example, C₂₋₆ alkynyl is intended to include C₂, C₃, C₄, C₅, and C₆ alkynyl groups. Examples of alkynyl include, but are not limited to, ethynyl and propynyl.

As used herein, "halo" or "halogen" refers to fluoro, chloro, bromo, and iodo. "Counterion" is used to represent a small, negatively charged species such as chloride, bromide, hydroxide, acetate, and sulfate.

As used herein, "carbocycle" or "carbocyclic ring" is intended to mean any stable monocyclic, bicyclic, or tricyclic ring having the specified number of carbons, any of which may be saturated, unsaturated, or aromatic. For example a C₃₋₁₄ carbocycle is intended to mean a mono-, bi-, or tricyclic ring having 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, or 14 carbon atoms. Examples of carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclobutenyl, cyclopentyl, cyclopentenyl, cyclohexyl, cycloheptenyl, cycloheptyl, cycloheptenyl, adamantyl,

cyclooctyl, cyclooctenyl, cyclooctadienyl, fluorenyl, phenyl, naphthyl, indanyl, adamantyl, and tetrahydronaphthyl. Bridged rings are also included in the definition of carbocycle, including, for example, [3.3.0]bicyclooctane, [4.3.0]bicyclononane, [4.4.0]bicyclodecane, and [2.2.2]bicyclooctane. A bridged ring occurs when one or more carbon atoms link two non-adjacent carbon atoms. Preferred bridges are one or two carbon atoms. It is noted that a bridge always converts a monocyclic ring into a tricyclic ring. When a ring is bridged, the substituents recited for the ring may also be present on the bridge. Fused (e.g., naphthyl and tetrahydronaphthyl) and spiro rings are also included.

As used herein, the term "heterocycle" or "heterocyclic" is intended to mean any stable monocyclic, bicyclic, or tricyclic ring which is saturated, unsaturated, or aromatic and comprises carbon atoms and one or more ring heteroatoms, e.g., 1 or 1-2 or 1-3 or 1-4 or 1-5 or 1-6 heteroatoms, independently selected from the group consisting of nitrogen, oxygen, and sulfur. A bicyclic or tricyclic heterocycle may have one or more heteroatoms located in one ring, or the heteroatoms may be located in more than one ring. The nitrogen and sulfur heteroatoms may optionally be oxidized (i.e., $N \rightarrow O$ and $S(O)_p$, where $p = 1$ or 2). When a nitrogen atom is included in the ring it is either N or NH, depending on whether or not it is attached to a double bond in the ring (i.e., a hydrogen is present if needed to maintain the trivalency of the nitrogen atom). The nitrogen atom may be substituted or unsubstituted (i.e., N or NR wherein R is H or another substituent, as defined). The heterocyclic ring may be attached to its pendant group at any heteroatom or carbon atom that results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. A nitrogen in the heterocycle may optionally be quaternized. It is preferred that when the total number of S and O atoms in the heterocycle exceeds 1, then these heteroatoms are not adjacent to one another. Bridged rings are also included in the definition of heterocycle. A bridged ring occurs when one or more atoms (i.e., C, O, N, or S) link two non-adjacent carbon or nitrogen atoms. Preferred bridges include, but are not limited to, one carbon atom, two carbon atoms, one nitrogen atom, two nitrogen atoms, and a carbon-nitrogen group. It is noted that a bridge always converts a monocyclic ring into a tricyclic ring. When a ring is bridged, the substituents recited for the ring may also be present on the bridge. Spiro and fused rings are also included.

As used herein, the term "aromatic heterocycle" or "heteroaryl" is intended to mean a stable 5, 6, or 7-membered monocyclic or bicyclic aromatic heterocyclic ring or 7, 8, 9, 10, 11,

or 12-membered bicyclic aromatic heterocyclic ring which consists of carbon atoms and one or more heteroatoms, e.g., 1 or 1-2 or 1-3 or 1-4 or 1-5 or 1-6 heteroatoms, independently selected from the group consisting of nitrogen, oxygen, and sulfur. In the case of bicyclic heterocyclic aromatic rings, only one of the two rings needs to be aromatic (e.g., 2,3-dihydroindole), though
5 both may be (e.g., quinoline). The second ring can also be fused or bridged as defined above for heterocycles. The nitrogen atom may be substituted or unsubstituted (i.e., N or NR wherein R is H or another substituent, as defined). The nitrogen and sulfur heteroatoms may optionally be oxidized (i.e., N→O and S(O)_p, where p = 1 or 2). It is to be noted that total number of S and O atoms in the aromatic heterocycle is not more than 1.

10 Examples of heterocycles include, but are not limited to, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl, benzoxazoliny, benzthiazolyl, benztriazolyl, benztetrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazoliny, carbazolyl, 4*aH*-carbazolyl, carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 2*H*,6*H*-1,5,2-dithiazinyl, dihydrofuro[2,3-*b*]tetrahydrofuran, furanyl,
15 furazanyl, imidazolidinyl, imidazoliny, imidazolyl, 1*H*-indazolyl, indolenyl, indoliny, indoliziny, indolyl, 3*H*-indolyl, isatinoyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindoliny, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, methylenedioxyphenyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl, oxazolyl, oxindolyl,
20 pyrimidinyl, phenanthridinyl, phenanthrolinyl, phenazinyl, phenothiazinyl, phenoxathinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, piperidonyl, 4-piperidonyl, piperonyl, pteridinyl, purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazoliny, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrroliny, 2*H*-pyrrolyl, pyrrolyl, quinazoliny, quinolinyl, 4*H*-quinoliziny, quinoxaliny,
25 quinuclidiny, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, tetrazolyl, 6*H*-1,2,5-thiadiazinyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, thianthrenyl, thiazolyl, thienyl, thienothiazolyl, thienooxazolyl, thienoimidazolyl, thiophenyl, triazinyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, and xanthenyl.

As used herein, the phrase "pharmaceutically acceptable" refers to those compounds,
30 materials, compositions, carriers, and/or dosage forms which are, within the scope of sound medical judgment, suitable for use in contact with the tissues of human beings and animals

without excessive toxicity, irritation, allergic response, or other problem or complication, commensurate with a reasonable benefit/risk ratio.

As used herein, "pharmaceutically acceptable salts" refer to derivatives of the disclosed compounds wherein the parent compound is modified by making acid or base salts thereof.

- 5 Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines, alkali or organic salts of acidic residues such as carboxylic acids, and the like. The pharmaceutically acceptable salts include the conventional non-toxic salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-
- 10 toxic salts include, but are not limited to, those derived from inorganic and organic acids selected from 2-acetoxybenzoic, 2-hydroxyethane sulfonic, acetic, ascorbic, benzene sulfonic, benzoic, bicarbonic, carbonic, citric, edetic, ethane disulfonic, ethane sulfonic, fumaric, glucoheptonic, gluconic, glutamic, glycolic, glycollyarsanilic, hexylresorcinic, hydrabamic, hydrobromic, hydrochloric, hydroiodic, hydroxymaleic, hydroxynaphthoic, isethionic, lactic,
- 15 lactobionic, lauryl sulfonic, maleic, malic, mandelic, methane sulfonic, napsylic, nitric, oxalic, pamoic, pantothenic, phenylacetic, phosphoric, polygalacturonic, propionic, salicylic, stearic, subacetic, succinic, sulfamic, sulfanilic, sulfuric, tannic, tartaric, and toluene sulfonic.

The pharmaceutically acceptable salts of the present invention can be synthesized from a parent compound that contains a basic or acidic moiety by conventional chemical methods.

- 20 Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid in water or in an organic solvent, or in a mixture of the two; generally, non-aqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in *Remington's Pharmaceutical Sciences*, 18th ed. (Mack Publishing Company, 1990).

- 25 Since prodrugs are known to enhance numerous desirable qualities of pharmaceuticals (e.g., solubility, bioavailability, manufacturing, etc.) the compounds of the present invention may be delivered in prodrug form. Thus, the present invention is intended to cover prodrugs of the presently claimed compounds, methods of delivering the same and compositions containing the same. "Prodrugs" are intended to include any covalently bonded carriers that release an
- 30 active parent drug of the present invention *in vivo* when such prodrug is administered to a mammalian subject. Prodrugs the present invention are prepared by modifying functional groups present in the compound in such a way that the modifications are cleaved, either in

routine manipulation or *in vivo*, to the parent compound. Prodrugs include compounds of the present invention wherein a hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug of the present invention is administered to a mammalian subject, cleaves to form a free hydroxyl, free amino, or free sulfhydryl group, respectively. Examples of prodrugs
5 include, but are not limited to, acetate, formate, and benzoate derivatives of alcohol and amine functional groups in the compounds of the present invention.

“Stable compound” and “stable structure” are meant to indicate a compound that is sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture, and formulation into an efficacious therapeutic agent.

10 As used herein, “treating” or “treatment” means the treatment of a disease-state in a mammal, particularly in a human, and include: (a) preventing the disease-state from occurring in a mammal, in particular, when such mammal is predisposed to the disease-state but has not yet been diagnosed as having it; (b) inhibiting the disease-state, i.e., arresting its development; and/or (c) relieving the disease-state, i.e., causing regression of the disease state.

15 As used herein, “mammal” refers to human and non-human patients.

As used herein, the term “effective amount” refers to an amount of a compound, or a combination of compounds, of the present invention effective when administered alone or in combination as an anti-proliferative and/or anti-infective agent. The combination of compounds is preferably a synergistic combination. Synergy, as described, for example, by
20 Chou and Talalay, *Adv. Enzyme Regul.* 1984, 22:27-55, occurs when the effect of the compounds when administered in combination is greater than the additive effect of the compounds when administered alone as a single agent. In general, a synergistic effect is most clearly demonstrated at sub-optimal concentrations of the compounds. Synergy can be in terms of lower cytotoxicity, increased anti-proliferative and/or anti-infective effect, or some other
25 beneficial effect of the combination compared with the individual components.

All percentages and ratios used herein, unless otherwise indicated, are by weight.

Throughout the description, where compositions are described as having, including, or comprising specific components, it is contemplated that compositions also consist essentially of, or consist of, the recited components. Similarly, where processes are described as having,
30 including, or comprising specific process steps, the processes also consist essentially of, or consist of, the recited processing steps. Further, it should be understood that the order of steps

or order for performing certain actions are immaterial so long as the invention remains operable. Moreover, two or more steps or actions may be conducted simultaneously.

2. Compounds of the Invention

In one aspect, the invention provides compounds having the formula:



or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein:

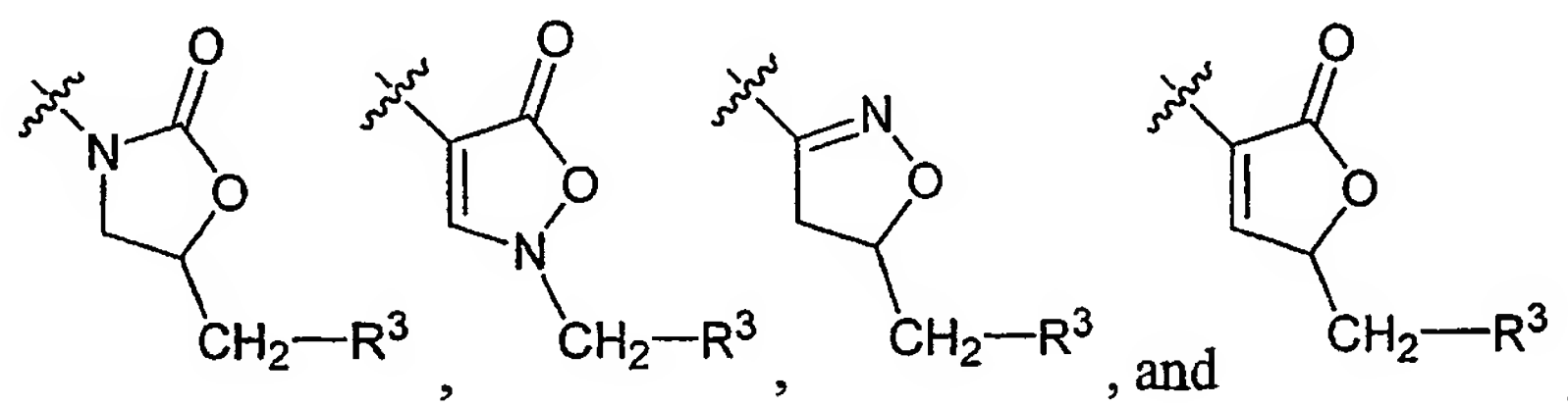
A is selected from the group consisting of:

phenyl, pyridyl, pyrazinyl, pyrimidinyl, and pyridazinyl;

B is selected from the group consisting of:

10 phenyl, pyridyl, pyrazinyl, pyrimidinyl, and pyridazinyl;

Het-CH₂-R³ is selected from the group consisting of:



M is selected from the group consisting of:

15 a) saturated, unsaturated, or aromatic C₃₋₁₄ carbocycle, and b) saturated, unsaturated, or aromatic 3-14 membered heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, wherein a) or b) optionally is substituted with one or more R⁵ groups;

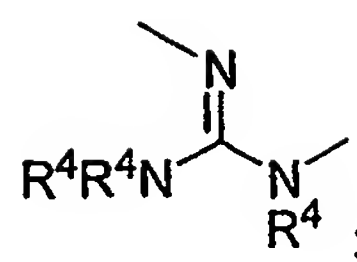
M-L is selected from the group consisting of:

20 a) M-X, b) M-L¹, c) M-L¹-X, d) M-X-L², e) M-L¹-X-L², f) M-X-L¹-X-L², g) M-L¹-X-L²-X, h) M-X-X-, i) M-L¹-X-X-, j) M-X-X-L², and k) M-L¹-X-X-L², wherein

X, at each occurrence, independently is selected from the group consisting of:

25 a) -O-, b) -NR⁴-, c) -N(O)-, d) -N(OR⁴)-, e) -S(O)_p-, f) -SO₂NR⁴-, g) -NR⁴SO₂-, h) -NR⁴-N=, i) =N-NR⁴-, j) -O-N=, k) =N-O-, l) -N=, m) =N-, n) -NR⁴-NR⁴-, o) -NR⁴C(O)O-, p) -OC(O)NR⁴-, q) -NR⁴C(O)NR⁴-, r) -NR⁴C(NR⁴)NR⁴-, and

s)



L^1 is selected from the group consisting of:

a) C_{1-6} alkyl, b) C_{2-6} alkenyl, and c) C_{2-6} alkynyl,

5 wherein any of a) – c) optionally is substituted with one or more R^5 groups; and

L^2 is selected from the group consisting of:

a) C_{1-6} alkyl, b) C_{2-6} alkenyl, and c) C_{2-6} alkynyl,

10 wherein any of a) – c) optionally is substituted with one or more R^5 groups;

R^1 , at each occurrence, independently is selected from the group consisting of:

15 a) F, b) Cl, c) Br, d) I, e) $-\text{CF}_3$, f) $-\text{OR}^4$, g) $-\text{CN}$, h) $-\text{NO}_2$, i) $-\text{NR}^4\text{R}^4$, j) $-\text{C}(\text{O})\text{R}^4$,
k) $-\text{C}(\text{O})\text{OR}^4$, l) $-\text{OC}(\text{O})\text{R}^4$, m) $-\text{C}(\text{O})\text{NR}^4\text{R}^4$, n) $-\text{NR}^4\text{C}(\text{O})\text{R}^4$, o) $-\text{OC}(\text{O})\text{NR}^4\text{R}^4$,
p) $-\text{NR}^4\text{C}(\text{O})\text{OR}^4$, q) $-\text{NR}^4\text{C}(\text{O})\text{NR}^4\text{R}^4$, r) $-\text{C}(\text{S})\text{R}^4$, s) $-\text{C}(\text{S})\text{OR}^4$, t) $-\text{OC}(\text{S})\text{R}^4$,
u) $-\text{C}(\text{S})\text{NR}^4\text{R}^4$, v) $-\text{NR}^4\text{C}(\text{S})\text{R}^4$, w) $-\text{OC}(\text{S})\text{NR}^4\text{R}^4$, x) $-\text{NR}^4\text{C}(\text{S})\text{OR}^4$,
y) $-\text{NR}^4\text{C}(\text{S})\text{NR}^4\text{R}^4$, z) $-\text{NR}^4\text{C}(\text{NR}^4)\text{NR}^4\text{R}^4$, aa) $-\text{S}(\text{O})_p\text{R}^4$, bb) $-\text{SO}_2\text{NR}^4\text{R}^4$, and
cc) R^4 ;

R^2 , at each occurrence, independently is selected from the group consisting of:

20 a) F, b) Cl, c) Br, d) I, e) $-\text{CF}_3$, f) $-\text{OR}^4$, g) $-\text{CN}$, h) $-\text{NO}_2$, i) $-\text{NR}^4\text{R}^4$, j) $-\text{C}(\text{O})\text{R}^4$,
k) $-\text{C}(\text{O})\text{OR}^4$, l) $-\text{OC}(\text{O})\text{R}^4$, m) $-\text{C}(\text{O})\text{NR}^4\text{R}^4$, n) $-\text{NR}^4\text{C}(\text{O})\text{R}^4$, o) $-\text{OC}(\text{O})\text{NR}^4\text{R}^4$,
p) $-\text{NR}^4\text{C}(\text{O})\text{OR}^4$, q) $-\text{NR}^4\text{C}(\text{O})\text{NR}^4\text{R}^4$, r) $-\text{C}(\text{S})\text{R}^4$, s) $-\text{C}(\text{S})\text{OR}^4$, t) $-\text{OC}(\text{S})\text{R}^4$,
u) $-\text{C}(\text{S})\text{NR}^4\text{R}^4$, v) $-\text{NR}^4\text{C}(\text{S})\text{R}^4$, w) $-\text{OC}(\text{S})\text{NR}^4\text{R}^4$, x) $-\text{NR}^4\text{C}(\text{S})\text{OR}^4$,
y) $-\text{NR}^4\text{C}(\text{S})\text{NR}^4\text{R}^4$, z) $-\text{NR}^4\text{C}(\text{NR}^4)\text{NR}^4\text{R}^4$, aa) $-\text{S}(\text{O})_p\text{R}^4$, bb) $-\text{SO}_2\text{NR}^4\text{R}^4$, and
cc) R^4 ;

25 R^3 is selected from the group consisting of:

30 a) $-\text{OR}^4$, b) $-\text{NR}^4\text{R}^4$, c) $-\text{C}(\text{O})\text{R}^4$, d) $-\text{C}(\text{O})\text{OR}^4$, e) $-\text{OC}(\text{O})\text{R}^4$, f) $-\text{C}(\text{O})\text{NR}^4\text{R}^4$,
g) $-\text{NR}^4\text{C}(\text{O})\text{R}^4$, h) $-\text{OC}(\text{O})\text{NR}^4\text{R}^4$, i) $-\text{NR}^4\text{C}(\text{O})\text{OR}^4$, j) $-\text{NR}^4\text{C}(\text{O})\text{NR}^4\text{R}^4$,
k) $-\text{C}(\text{S})\text{R}^4$, l) $-\text{C}(\text{S})\text{OR}^4$, m) $-\text{OC}(\text{S})\text{R}^4$, n) $-\text{C}(\text{S})\text{NR}^4\text{R}^4$, o) $-\text{NR}^4\text{C}(\text{S})\text{R}^4$,
p) $-\text{OC}(\text{S})\text{NR}^4\text{R}^4$, q) $-\text{NR}^4\text{C}(\text{S})\text{OR}^4$, r) $-\text{NR}^4\text{C}(\text{S})\text{NR}^4\text{R}^4$, s) $-\text{NR}^4\text{C}(\text{NR}^4)\text{NR}^4\text{R}^4$,
t) $-\text{S}(\text{O})_p\text{R}^4$, u) $-\text{SO}_2\text{NR}^4\text{R}^4$, and v) R^4 ;

R^4 , at each occurrence, independently is selected from the group consisting of:

- 5 a) H, b) C_{1-6} alkyl, c) C_{2-6} alkenyl, d) C_{2-6} alkynyl, e) C_{3-14} saturated, unsaturated, or aromatic carbocycle, f) 3-14 membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, g) $-C(O)-C_{1-6}$ alkyl,
- 10 h) $-C(O)-C_{2-6}$ alkenyl, i) $-C(O)-C_{2-6}$ alkynyl, j) $-C(O)-C_{3-14}$ saturated, unsaturated, or aromatic carbocycle, k) $-C(O)-3-14$ membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, l) $-C(O)O-C_{1-6}$ alkyl,
- 15 m) $-C(O)O-C_{2-6}$ alkenyl, n) $-C(O)O-C_{2-6}$ alkynyl, o) $-C(O)O-C_{3-14}$ saturated, unsaturated, or aromatic carbocycle, and p) $-C(O)O-3-14$ membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

15 wherein any of b) – p) optionally is substituted with one or more R^5 groups;

R^5 , at each occurrence, is independently selected from the group consisting of:

- 20 a) F, b) Cl, c) Br, d) I, e) $=O$, f) $=S$, g) $=NR^6$, h) $=NOR^6$, i) $=N-NR^6R^6$, j) $-CF_3$, k) $-OR^6$, l) $-CN$, m) $-NO_2$, n) $-NR^6R^6$, o) $-C(O)R^6$, p) $-C(O)OR^6$, q) $-OC(O)R^6$, r) $-C(O)NR^6R^6$, s) $-NR^6C(O)R^6$, t) $-OC(O)NR^6R^6$, u) $-NR^6C(O)OR^6$,
- 25 v) $-NR^6C(O)NR^6R^6$, w) $-C(S)R^6$, x) $-C(S)OR^6$, y) $-OC(S)R^6$, z) $-C(S)NR^6R^6$, aa) $-NR^6C(S)R^6$, bb) $-OC(S)NR^6R^6$, cc) $-NR^6C(S)OR^6$, dd) $-NR^6C(S)NR^6R^6$, ee) $-NR^6C(NR^6)NR^6R^6$, ff) $-S(O)_pR^6$, gg) $-SO_2NR^6R^6$, and hh) R^6 ;

R^6 , at each occurrence, independently is selected from the group consisting of:

- 25 a) H, b) C_{1-6} alkyl, c) C_{2-6} alkenyl, d) C_{2-6} alkynyl, e) C_{3-14} saturated, unsaturated, or aromatic carbocycle, f) 3-14 membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, g) $-C(O)-C_{1-6}$ alkyl,
- 30 h) $-C(O)-C_{2-6}$ alkenyl, i) $-C(O)-C_{2-6}$ alkynyl, j) $-C(O)-C_{3-14}$ saturated, unsaturated, or aromatic carbocycle, k) $-C(O)-3-14$ membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, l) $-C(O)O-C_{1-6}$ alkyl,
- m) $-C(O)O-C_{2-6}$ alkenyl, n) $-C(O)O-C_{2-6}$ alkynyl, o) $-C(O)O-C_{3-14}$ saturated,

unsaturated, or aromatic carbocycle, and p) -C(O)O-3-14 membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

wherein any of b) – p) optionally is substituted with one or more R^7

5

groups;

R^7 , at each occurrence, independently is selected from the group consisting of:

- a) F, b) Cl, c) Br, d) I, e) =O, f) =S, g) =NR⁸, h) =NOR⁸, i) =N-NR⁸R⁸, j) -CF₃,
 k) -OR⁸, l) -CN, m) -NO₂, n) -NR⁸R⁸, o) -C(O)R⁸, p) -C(O)OR⁸, q) -OC(O)R⁸,
 r) -C(O)NR⁸R⁸, s) -NR⁸C(O)R⁸, t) -OC(O)NR⁸R⁸, u) -NR⁸C(O)OR⁸,
 10 v) -NR⁸C(O)NR⁸R⁸, w) -C(S)R⁸, x) -C(S)OR⁸, y) -OC(S)R⁸, z) -C(S)NR⁸R⁸,
 aa) -NR⁸C(S)R⁸, bb) -OC(S)NR⁸R⁸, cc) -NR⁸C(S)OR⁸, dd) -NR⁸C(S)NR⁸R⁸,
 ee) -NR⁸C(NR⁸)NR⁸R⁸, ff) -S(O)_pR⁸, gg) -SO₂NR⁸R⁸, hh) C₁₋₆ alkyl,
 ii) C₂₋₆ alkenyl, jj) C₂₋₆ alkynyl, kk) C₃₋₁₄ saturated, unsaturated, or aromatic
 carbocycle, and ll) 3-14 membered saturated, unsaturated, or aromatic heterocycle
 15 comprising one or more heteroatoms selected from the group consisting of
 nitrogen, oxygen, and sulfur,

wherein any of hh) – ll) optionally is substituted with one or more
 moieties selected from the group consisting of R⁸, F, Cl, Br, I, -CF₃, -
 OR⁸, -SR⁸, -CN, -NO₂, -NR⁸R⁸, -C(O)R⁸, -C(O)OR⁸, -OC(O)R⁸,
 20 -C(O)NR⁸R⁸, -NR⁸C(O)R⁸, -OC(O)NR⁸R⁸, -NR⁸C(O)OR⁸,
 -NR⁸C(O)NR⁸R⁸, -C(S)R⁸, -C(S)OR⁸, -OC(S)R⁸, -C(S)NR⁸R⁸,
 -NR⁸C(S)R⁸, -OC(S)NR⁸R⁸, -NR⁸C(S)OR⁸, -NR⁸C(S)NR⁸R⁸,
 -NR⁸C(NR⁸)NR⁸R⁸, -SO₂NR⁸R⁸, and -S(O)_pR⁸;

R^8 , at each occurrence, independently is selected from the group consisting of:

- 25 a) H, b) C₁₋₆ alkyl, c) C₂₋₆ alkenyl, d) C₂₋₆ alkynyl, e) C₃₋₁₄ saturated, unsaturated,
 or aromatic carbocycle, f) 3-14 membered saturated, unsaturated, or aromatic
 heterocycle comprising one or more heteroatoms selected from the group
 consisting of nitrogen, oxygen, and sulfur, g) -C(O)-C₁₋₆ alkyl,
 h) -C(O)-C₂₋₆ alkenyl, i) -C(O)-C₂₋₆ alkynyl, j) -C(O)-C₃₋₁₄ saturated,
 30 unsaturated, or aromatic carbocycle, k) -C(O)-3-14 membered saturated,
 unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected
 from the group consisting of nitrogen, oxygen, and sulfur, l) -C(O)O-C₁₋₆ alkyl,

m) $-\text{C}(\text{O})\text{O}-\text{C}_{2-6}$ alkenyl, n) $-\text{C}(\text{O})\text{O}-\text{C}_{2-6}$ alkynyl, o) $-\text{C}(\text{O})\text{O}-\text{C}_{3-14}$ saturated, unsaturated, or aromatic carbocycle, and p) $-\text{C}(\text{O})\text{O}-3-14$ membered saturated, unsaturated, or aromatic heterocycle comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

5 wherein any of b) – p) optionally is substituted with one or more moieties selected from the group consisting of F, Cl, Br, I, $-\text{CF}_3$, $-\text{OH}$, $-\text{OCH}_3$, $-\text{SH}$, $-\text{SCH}_3$, $-\text{CN}$, $-\text{NO}_2$, $-\text{NH}_2$, $-\text{NHCH}_3$, $-\text{N}(\text{CH}_3)_2$, $-\text{C}(\text{O})\text{CH}_3$, $-\text{C}(\text{O})\text{OCH}_3$, $-\text{C}(\text{O})\text{NH}_2$, $-\text{NHC}(\text{O})\text{CH}_3$, $-\text{SO}_2\text{NH}_2$, $-\text{SO}_2\text{NHCH}_3$, $-\text{SO}_2\text{N}(\text{CH}_3)_2$, and $-\text{S}(\text{O})_p\text{CH}_3$;

10 m is 0, 1, 2, 3, or 4;

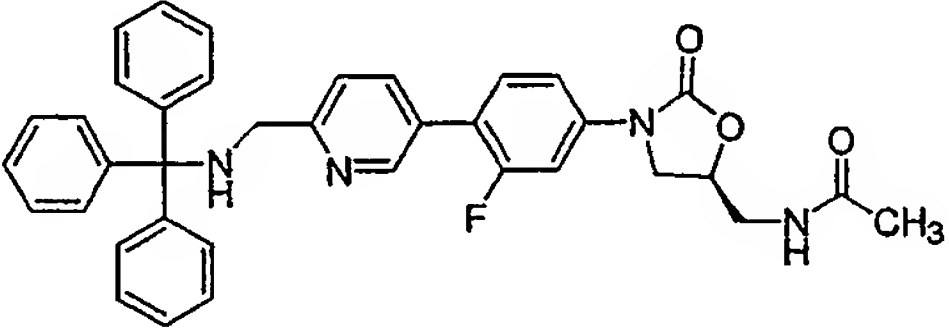
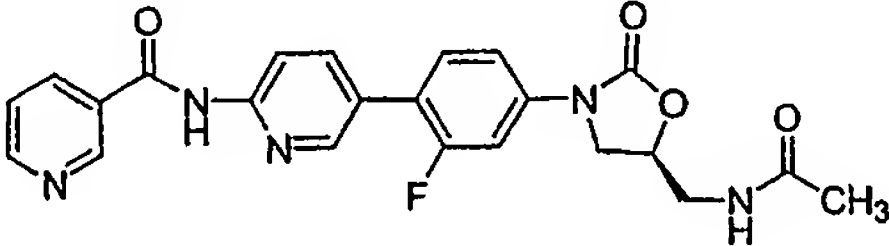
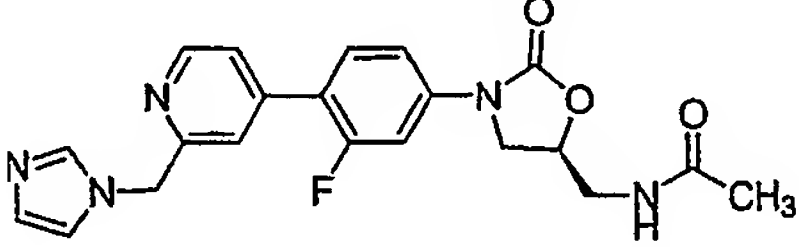
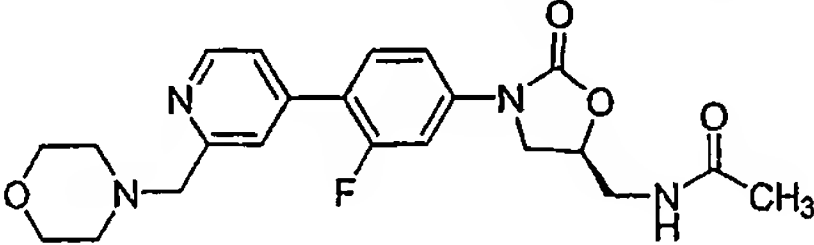
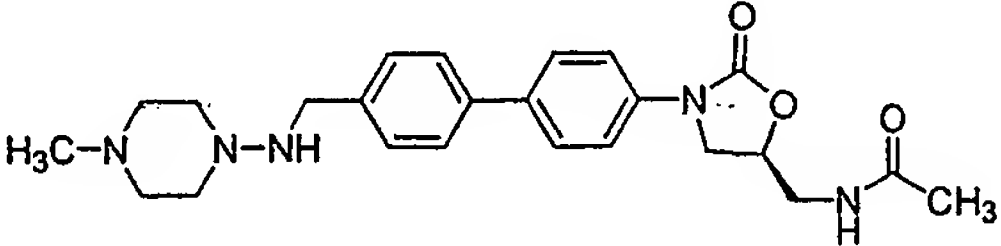
n is 0, 1, 2, 3, or 4; and

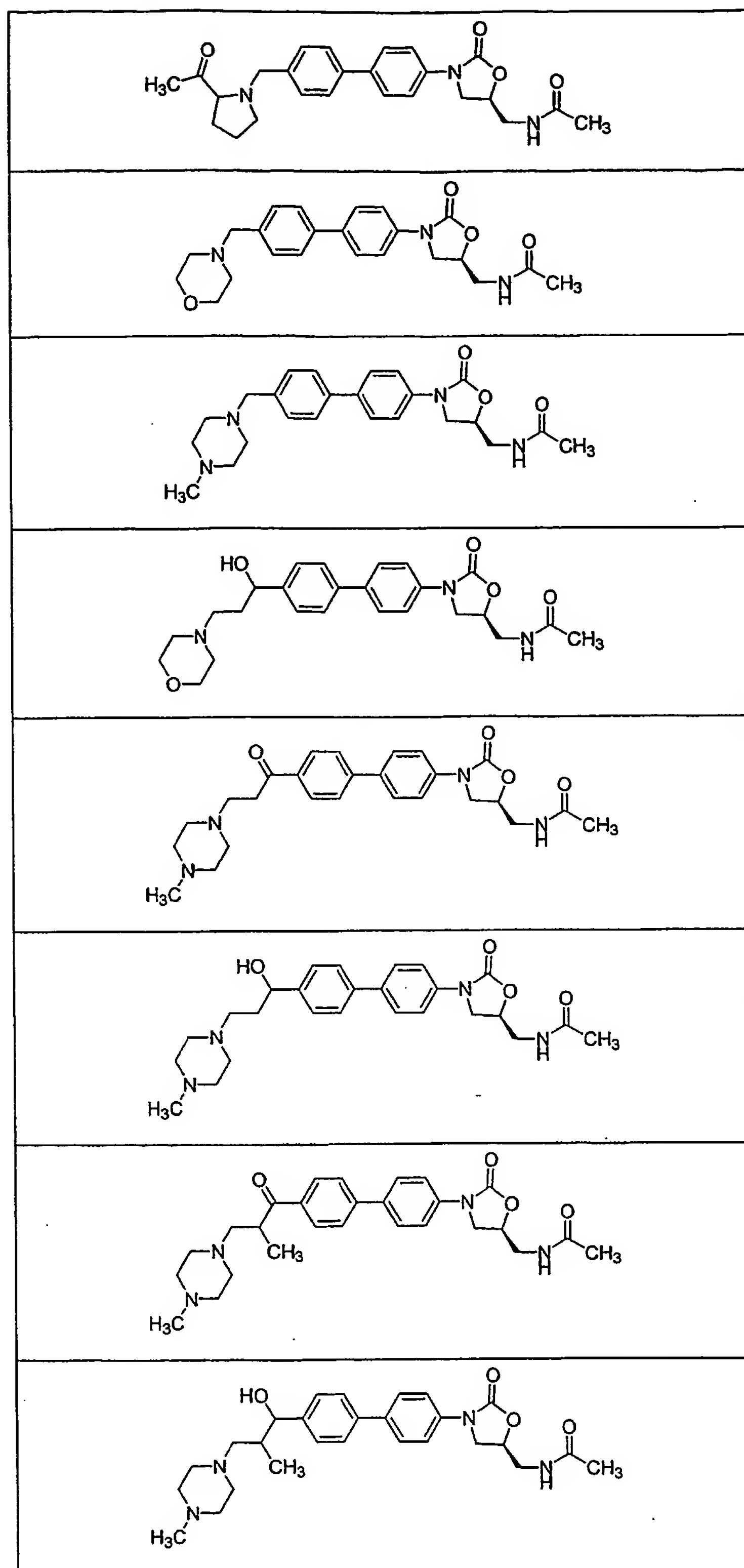
p, at each occurrence, independently is 0, 1, or 2,

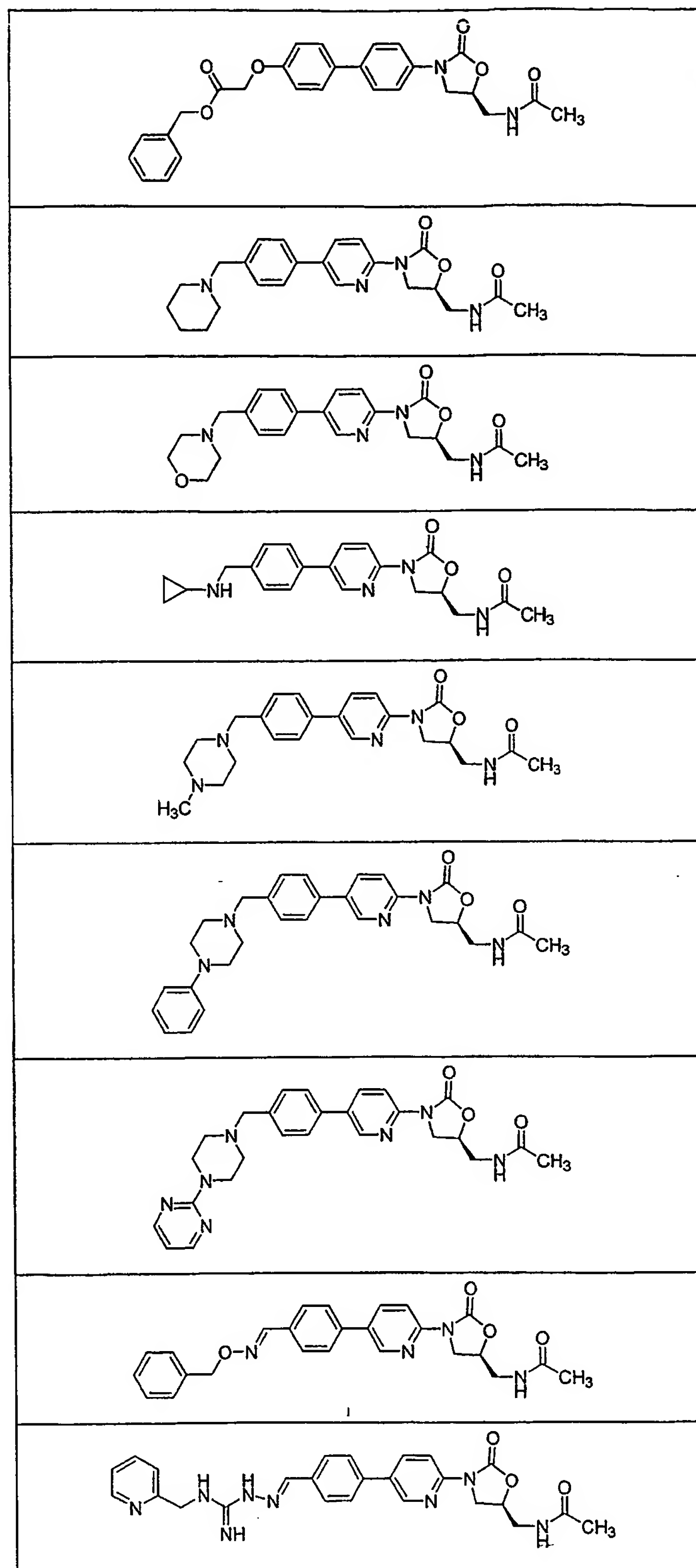
and wherein the compound does not have the formula corresponding to any of the structures listed in Table 1.

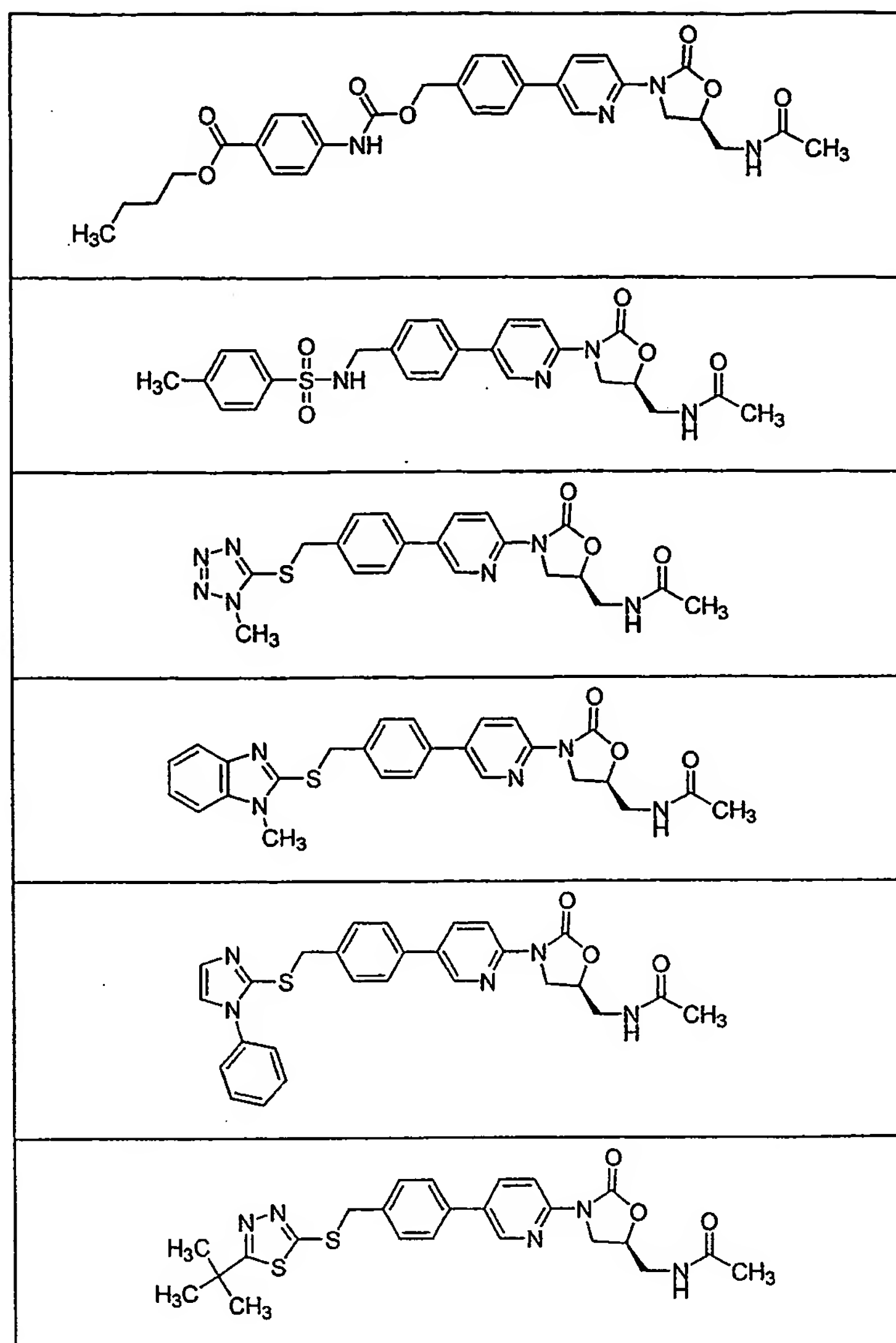
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Table 1

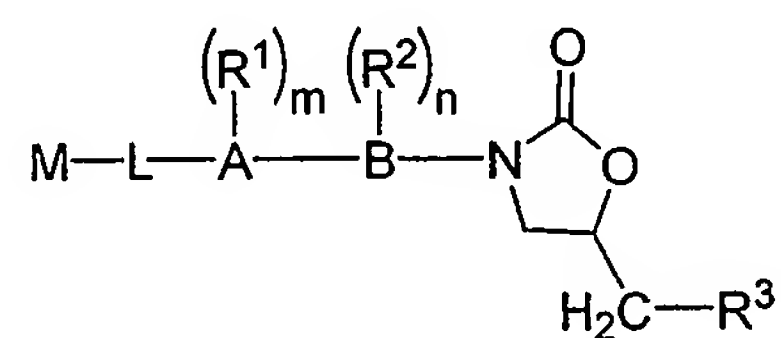










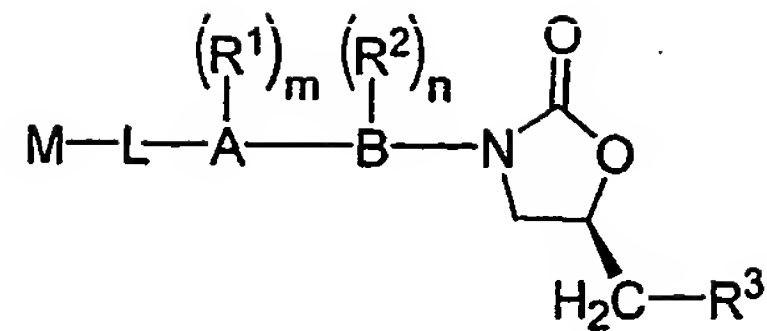


Particular embodiments of the invention include compounds having the formula:



or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, B, L, M, R¹, R², R³,
5 m, and n are defined above.

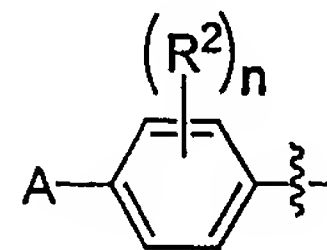
Other embodiments include compounds having the formula:



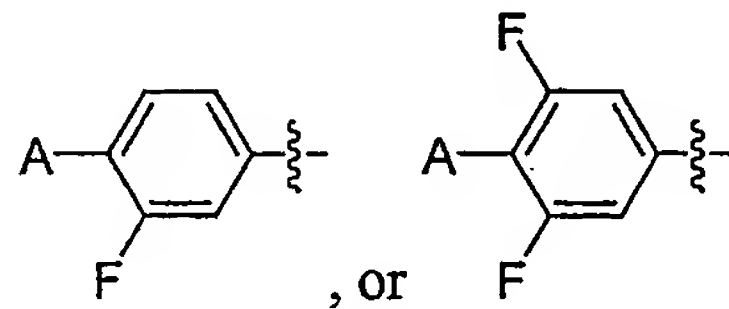
or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, B, L, M, R¹, R², R³, m, and n are defined as described above.

Particular compounds include those where A is selected from the group consisting of phenyl and pyridyl; B is selected from the group consisting of phenyl and pyridyl; m is 0, 1, or 2; and n is 0, 1, or 2.

In some embodiments, A-B is:



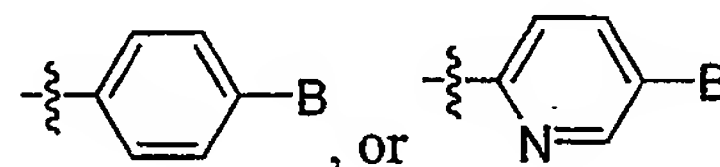
wherein A, R², and n are defined as described above. In particular embodiments, A-B is:



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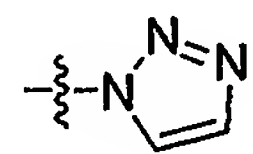
wherein A is defined as described above.

In various embodiments, A-B is:

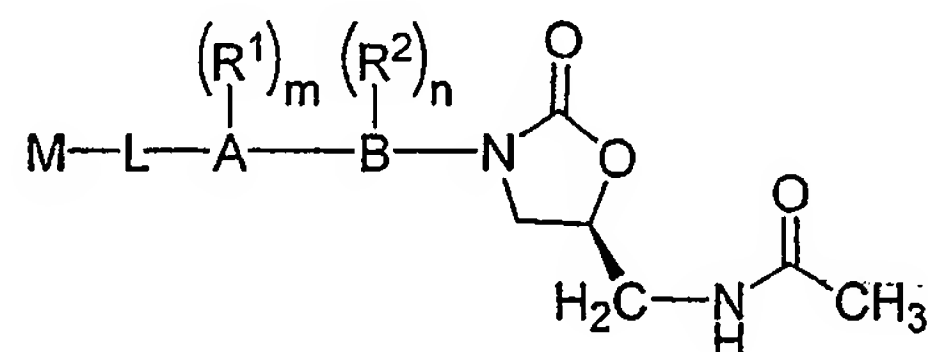


wherein B is defined as described in above.

In some embodiments, R³ is -NHC(O)R⁴. Particular compounds according to these embodiments include those where R⁴ is -CH₃. In other embodiments, R³ is:

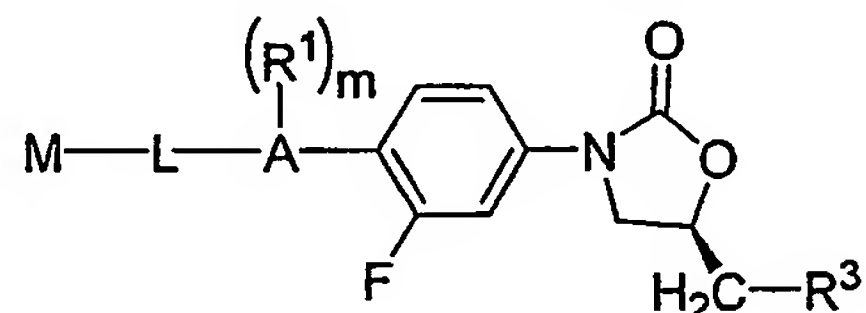


Particular embodiments of the invention include compounds having the formula:



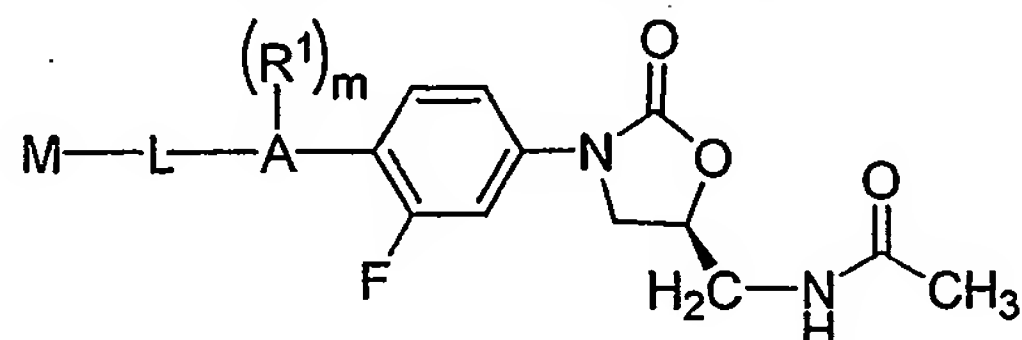
or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, B, L, M, R¹, R², m, and n are defined as described above.

Other embodiments of the invention include compounds having the formula:



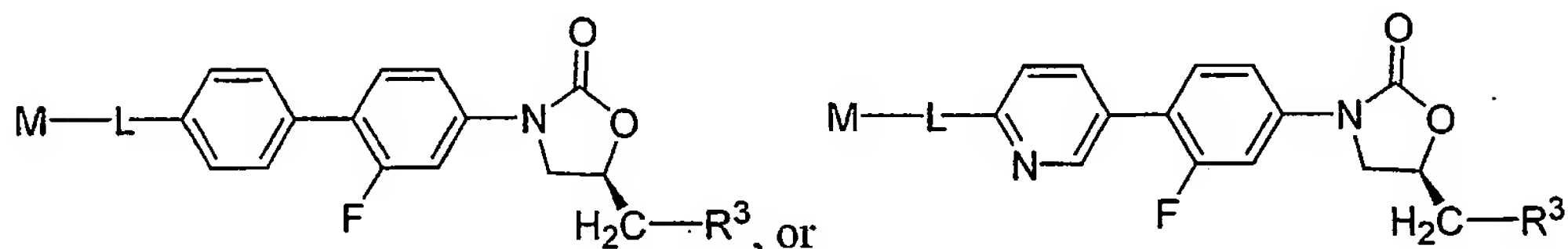
- 5 or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, L, M, R¹, R³, and m are defined as described above.

Still other embodiments of the invention include compounds having the formula:



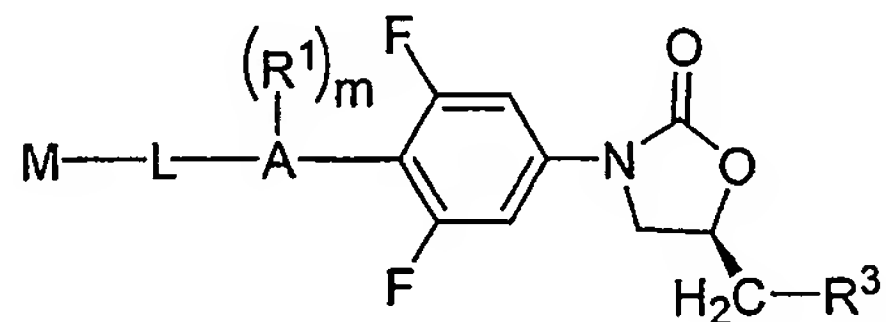
- 10 or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, L, M, R¹, and m are defined as described above.

Some embodiments of the invention include compounds having the formula:



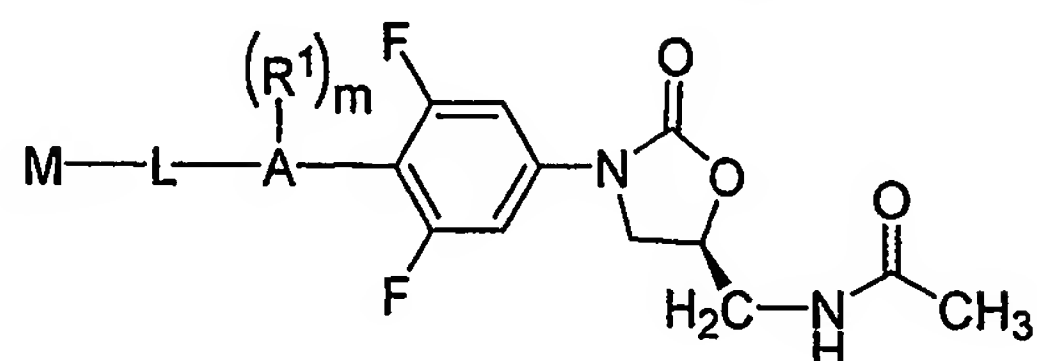
- or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein L, M, and R³ are defined as described above. Particular compounds according to these embodiments include
15 those wherein R³ is -NHC(O)CH₃.

Other embodiments of the invention include compounds having the formula:



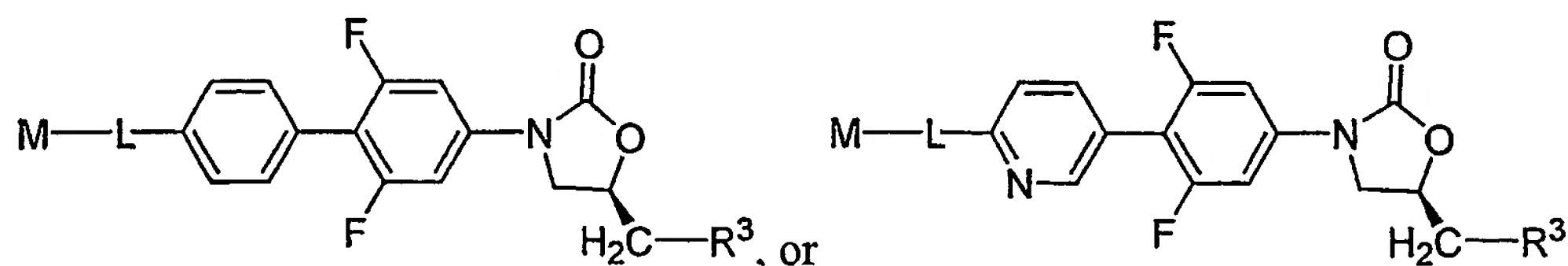
or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, L, M, R¹, R³, and m are defined as described above.

Still other embodiments of the invention include compounds having the formula:



or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein A, L, M, R¹, and m are defined as described above.

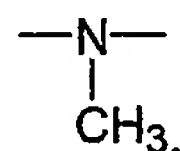
5 Some embodiments of the invention include compounds having the formula:



or a pharmaceutically acceptable salt, ester or prodrug thereof, wherein L, M, and R³ are defined as described above. Particular compounds according to these embodiments include those wherein R³ is -NHC(O)CH₃.

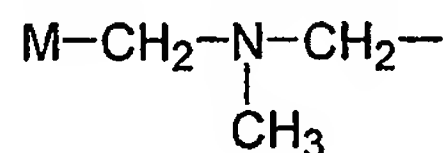
10 In some embodiments, M-L is M-L¹, and L¹ is C₁₋₆ alkyl. In particular embodiments, M-L¹ is M-CH₂-.

In other embodiments, M-L is M-L¹-X-L², and X is -NR⁴-. In particular compounds according to these embodiments, X is -NH-, -N(O)-, or -N(OR⁴)-, where R⁴ is H or C₁₋₆ alkyl. Other compounds include those where X is



15

In certain compounds according to these embodiments, L¹ is C₁₋₆ alkyl, and L² is C₁₋₆ alkyl. In some embodiments, L¹ is -CH₂- and L² is -CH₂-. Particular examples of compounds according to these embodiments include those where M-L is M-CH₂-NH-CH₂- or



20 In still other embodiments, M-L is M-S-L¹-NR⁴-L², wherein L¹ is C₁₋₆ alkyl, and L² is C₁₋₆ alkyl. In particular compounds according to these embodiments, M-L is M-S-CH₂CH₂-NH-CH₂-.

In particular embodiments, M is selected from the group consisting of:

- 25 a) phenyl, b) pyridyl, c) pyrazinyl, d) pyrimidinyl, e) pyridazinyl, f) oxiranyl, g) aziridinyl, h) furanyl, i) thiophenyl, j) pyrrolyl, k) oxazolyl, l) isoxazolyl,

m) imidazolyl, n) pyrazolyl, o) isothiazolyl, p) thiazolyl, q) triazolyl, r) tetrazolyl, s) indolyl, t) purinyl, u) benzofuranyl, v) benzoxazolyl, w) benzisoxazolyl, x) quinolinyl, y) isoquinolinyl, z) quinoxalinyl, aa) quinazolinyl, bb) cinnolinyl, cc) cyclopropyl, dd) cyclobutyl, ee) cyclopentyl, ff) cyclohexyl, gg) cycloheptyl, hh) oxetanyl, ii) tetrahydrofuranyl, jj) tetrahydropyranyl, kk) azetidiny, ll) pyrrolidinyl, mm) piperidinyl, nn) thietanyl, oo) tetrahydrothiophenyl, pp) tetrahydrothiopyranyl, qq) piperazinyl, rr) quinuclidinyl, ss) 1-azabicyclo[2.2.1]heptanyl, tt) morpholinyl, uu) thiomorpholinyl, vv) thiooxomorpholinyl, ww) thiodioxomorpholinyl, and xx) benzothiophenyl

wherein any of a) – xx) optionally is substituted with one or more R^5 groups. In particular embodiments, M is 4-isoxazolyl, [1,2,3]triazol-1-yl, 3H-[1,2,3]triazol-4-yl, 1H-tetrazol-5-yl, piperidin-1-yl, or pyrrolidin-1-yl.

In preferred embodiments, A is phenyl, substituted phenyl, pyridyl, or substituted pyridyl. Under certain circumstances, when A is pyridin-4-yl substituted with M-L at the 2 position, M-L is not (imidazol-1-yl)methyl or (morpholin-4-yl)methyl.

In preferred embodiments, B is phenyl or substituted phenyl. More preferably, B is substituted phenyl. Preferred substituents include halogens, and in particular, fluorine. Under certain circumstances, when B is unsubstituted phenyl, M-L is selected from the group consisting of M-X, $M-L^1-X$, $M-L^1-X-L^2$, $M-X-L^1-X-L^2$, M-X-X-, $M-L^1-X-X-$, $M-X-X-L^2$, and $M-L^1-X-X-L^2$. Under certain circumstances, when B is pyridin-2-yl substituted with A at the 5 position, M-L is selected from the group consisting of M-X, $M-L^1-X$, $M-L^1-X-L^2$, $M-L^1-X-L^2-X$, M-X-X-, M-X-X-L², and $M-L^1-X-X-L^2$.

In another aspect, the invention provides a pharmaceutical composition comprising an effective amount of one or more of the foregoing compounds and a pharmaceutically acceptable carrier. Suitable formulating agents are described in detail in section 5 hereinbelow.

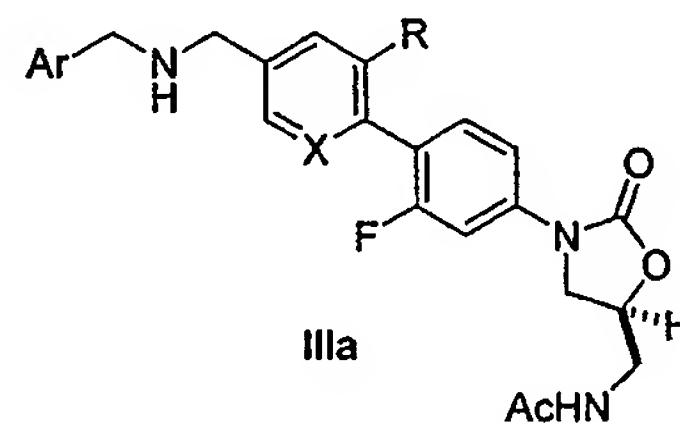
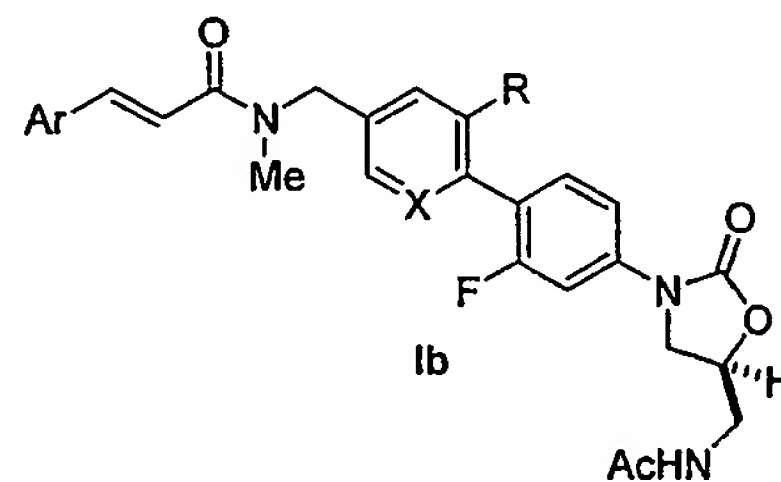
One or more of the foregoing compounds may also be incorporated into a medical device. For example, a medical device, such as a medical stent, can contain or be coated with one or more of the compounds of the invention.

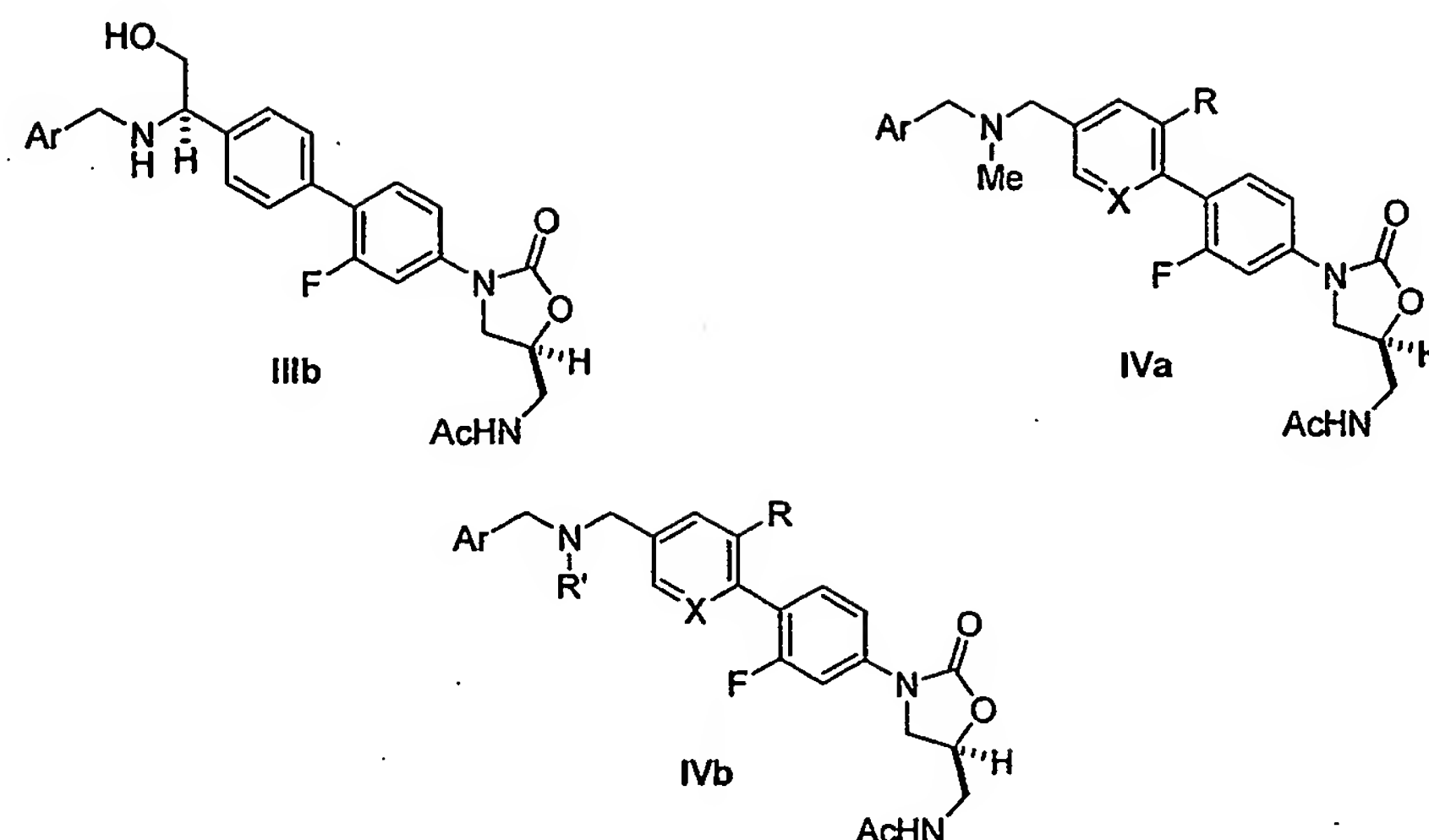
In another aspect, the invention provides a method for treating a microbial infection, a fungal infection, a viral infection, a parasitic disease, a proliferative disease, an inflammatory disease, or a gastrointestinal motility disorder in a mammal. The method involves

The invention provides a method of treating a disorder in a mammal comprising the step of administering to the mammal an effective amount of one or more compounds of the invention thereby to ameliorate a symptom of a particular disorder. Such a disorder can be selected from the group consisting of a skin infection, nosocomial pneumonia, post-viral pneumonia, an abdominal infection, a urinary tract infection, bacteremia, septicemia, endocarditis, an atrio-ventricular shunt infection, a vascular access infection, meningitis, surgical prophylaxis, a peritoneal infection, a bone infection, a joint infection, a methicillin-resistant *Staphylococcus aureus* infection, a vancomycin-resistant *Enterococci* infection, a linezolid-resistant organism infection, and tuberculosis.

The invention provides methods and intermediates for making compounds of the present invention. The following schemes depict some exemplary chemistries available for synthesizing the compounds of the invention. It will be appreciated, however, that the desired compounds may be synthesized using other alternative chemistries known in the art.

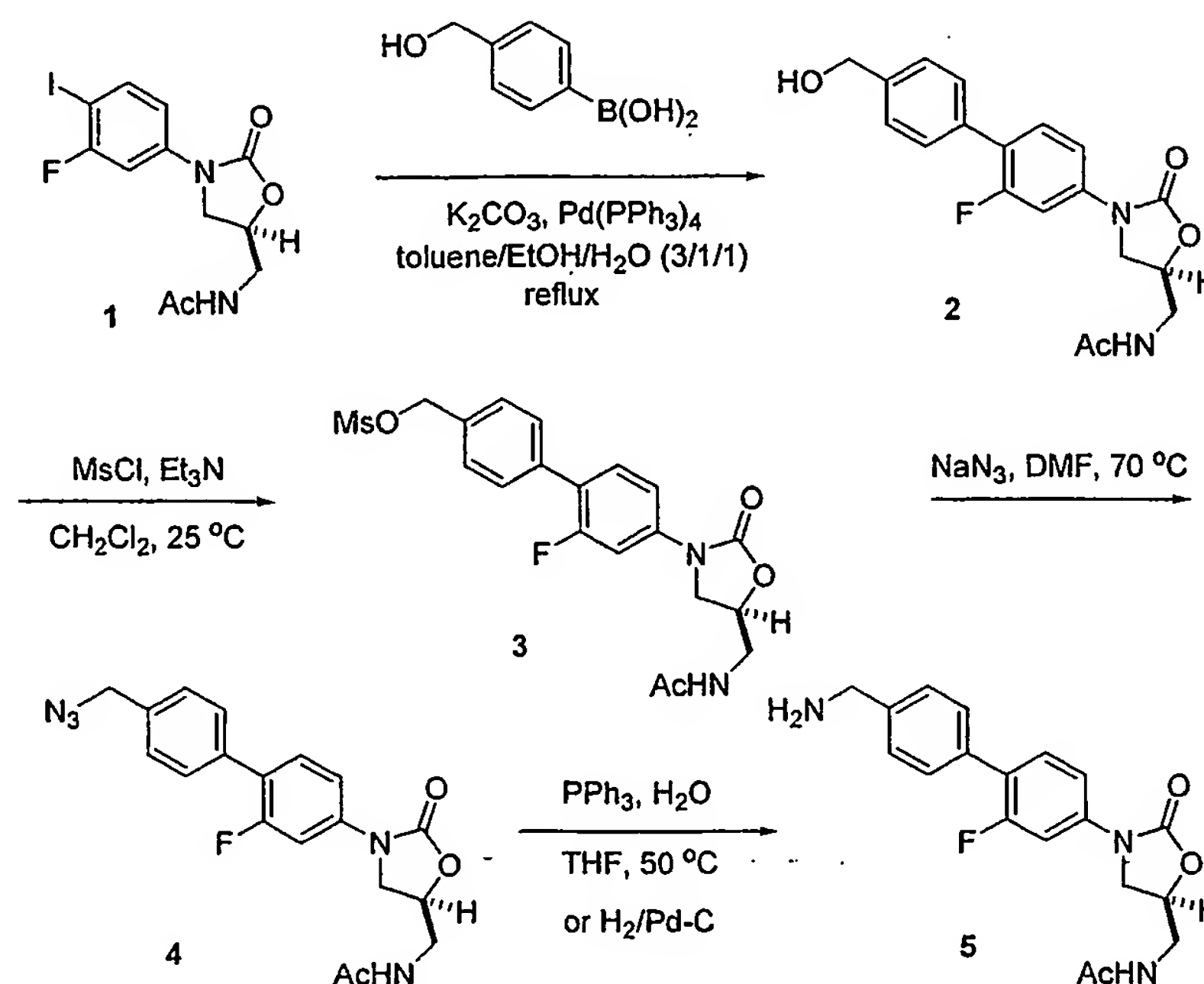
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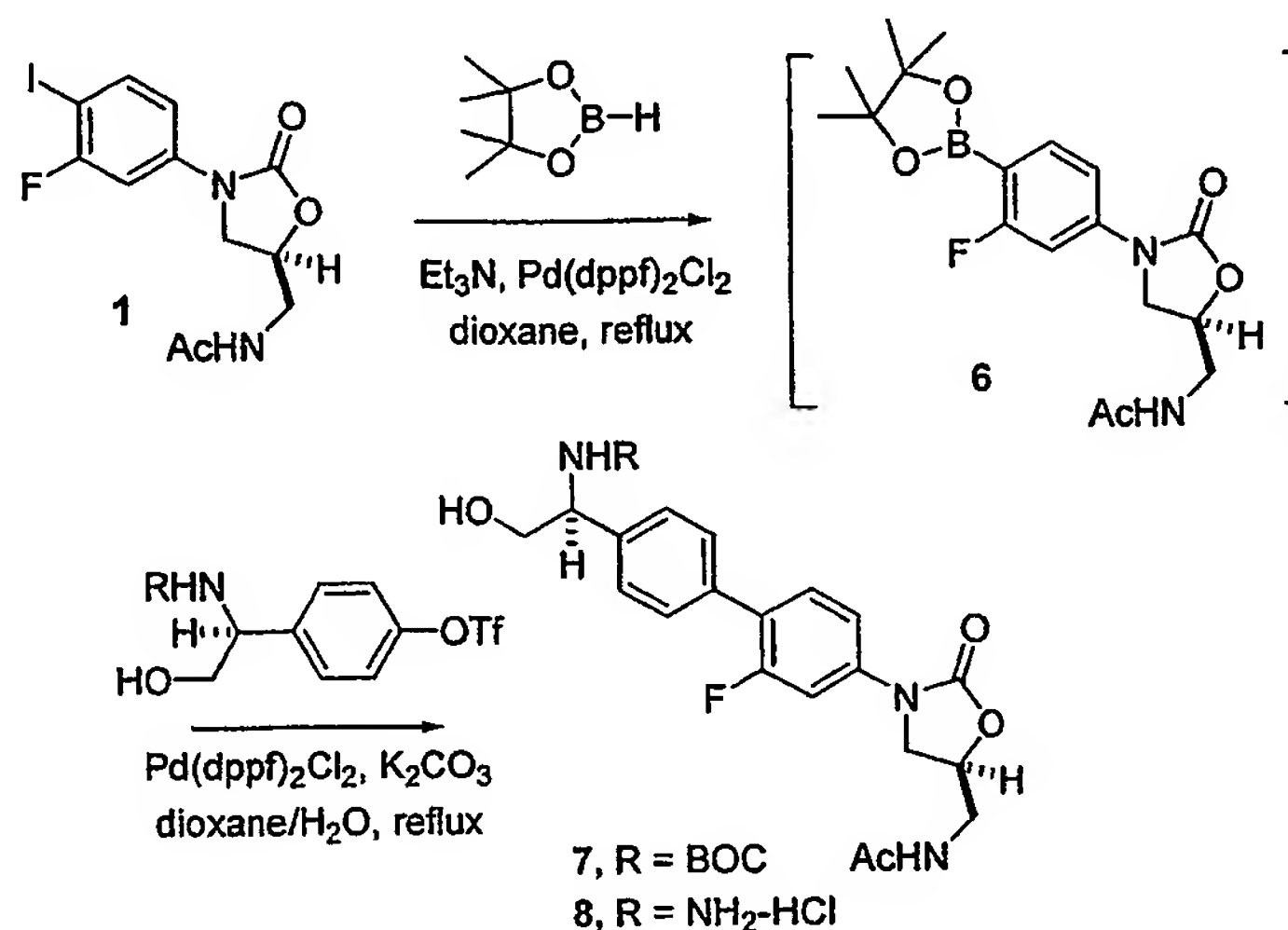
Scheme A exemplifies the synthesis of biaryl amine intermediate **5**, which is useful in producing certain compounds of the present invention. Known iodoaryl oxazolidinone intermediate **1** (see U.S. Patent Nos. 5,523,403 and 5,565,571) is coupled to a substituted aryl boronic acid (the Suzuki reaction) to produce biaryl alcohol **2**. Other coupling reactions (for example, the Stille reaction) using alternate coupling intermediates easily obtained or synthesized by those skilled in the art could also be employed to synthesize target biaryl intermediates similar to **2**. These alternate coupling reactions are within the scope of the present invention. Alcohol **2** is then converted to amine **5** by chemistry well known to those skilled in the art.

Scheme A



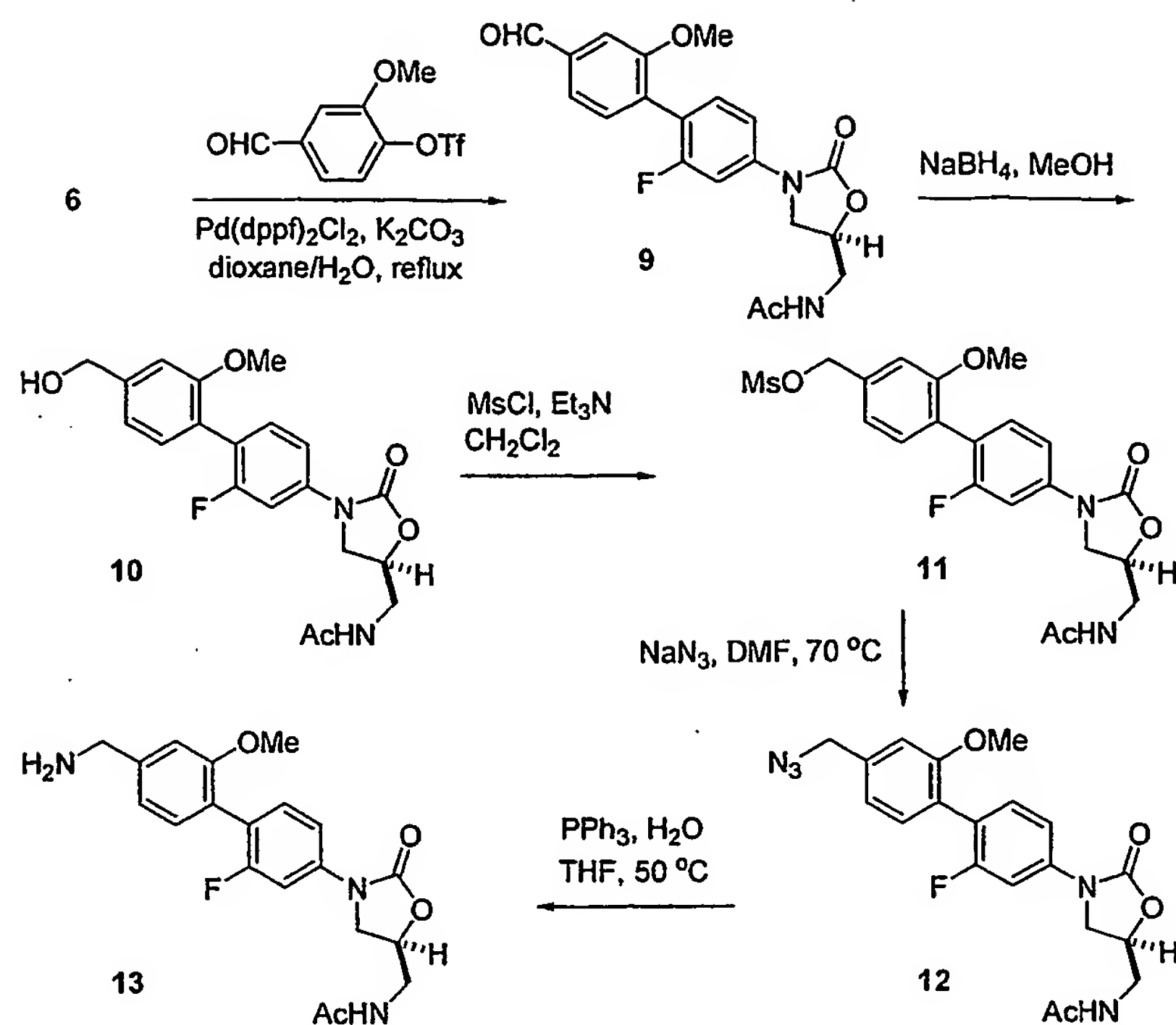
Scheme B illustrates the synthesis of intermediates 7 and 8 of the present invention using Suzuki coupling chemistry between boronic acids and aryl triflates. Boronic ester 6 is treated with an appropriate aryl triflate to yield the BOC-protected biaryl 7. The BOC group of 7 is removed to provide amine 8, an intermediate useful in the synthesis of certain compounds of the present invention.

Scheme B



Scheme C depicts the synthesis of intermediates 9-13, which are useful in producing certain methoxy-substituted biaryl derivatives of the present invention. Suzuki coupling of boronic ester 6 produces biaryl aldehyde 9, which can be reduced to alcohol 10. Mesylation of 10 yields 11 that can be converted to azide 12. Reduction of azide 12 yields amine 13.

Scheme C

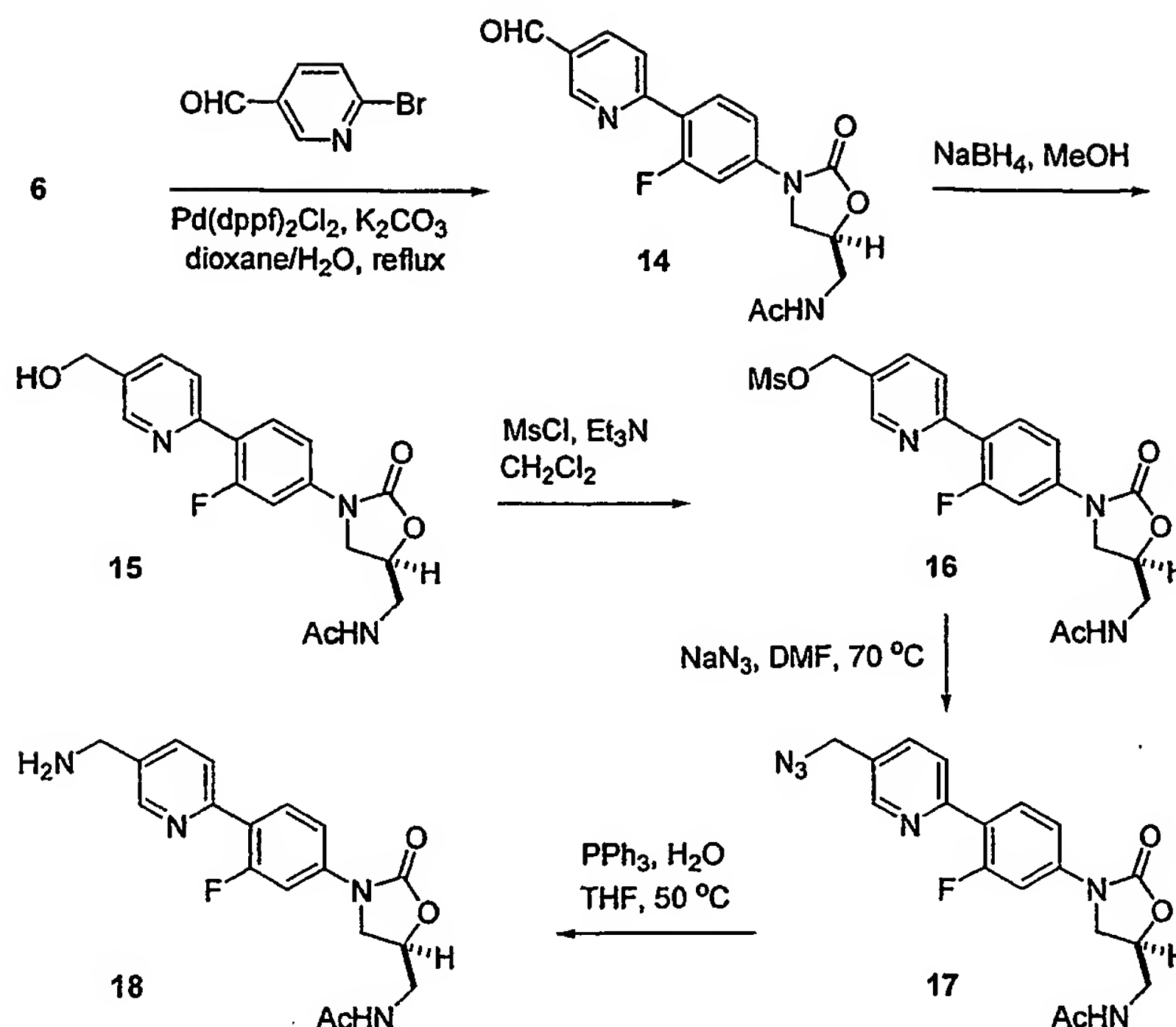


Scheme D depicts the synthesis of pyridyl intermediates, which are useful for the synthesis of compounds of the present invention, via similar chemistry to that shown in Scheme

5 C. Coupling of boronic ester 6 to a halopyridine aldehyde produces biaryl aldehyde 14.

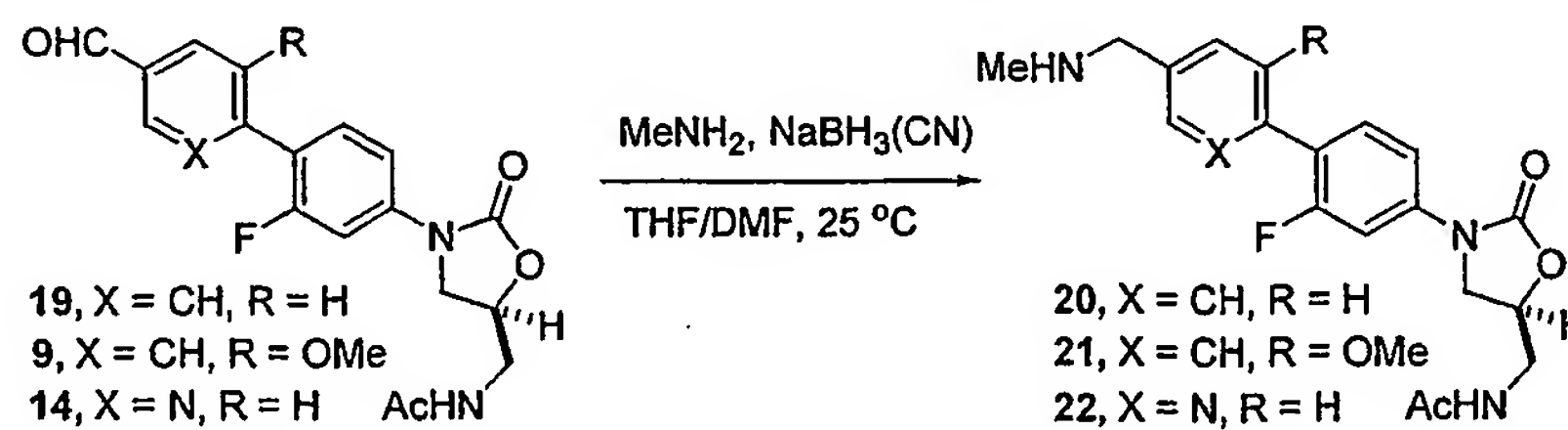
Aldehyde 14 serves as the precursor to intermediates 15-18 via chemistry described above.

Scheme D



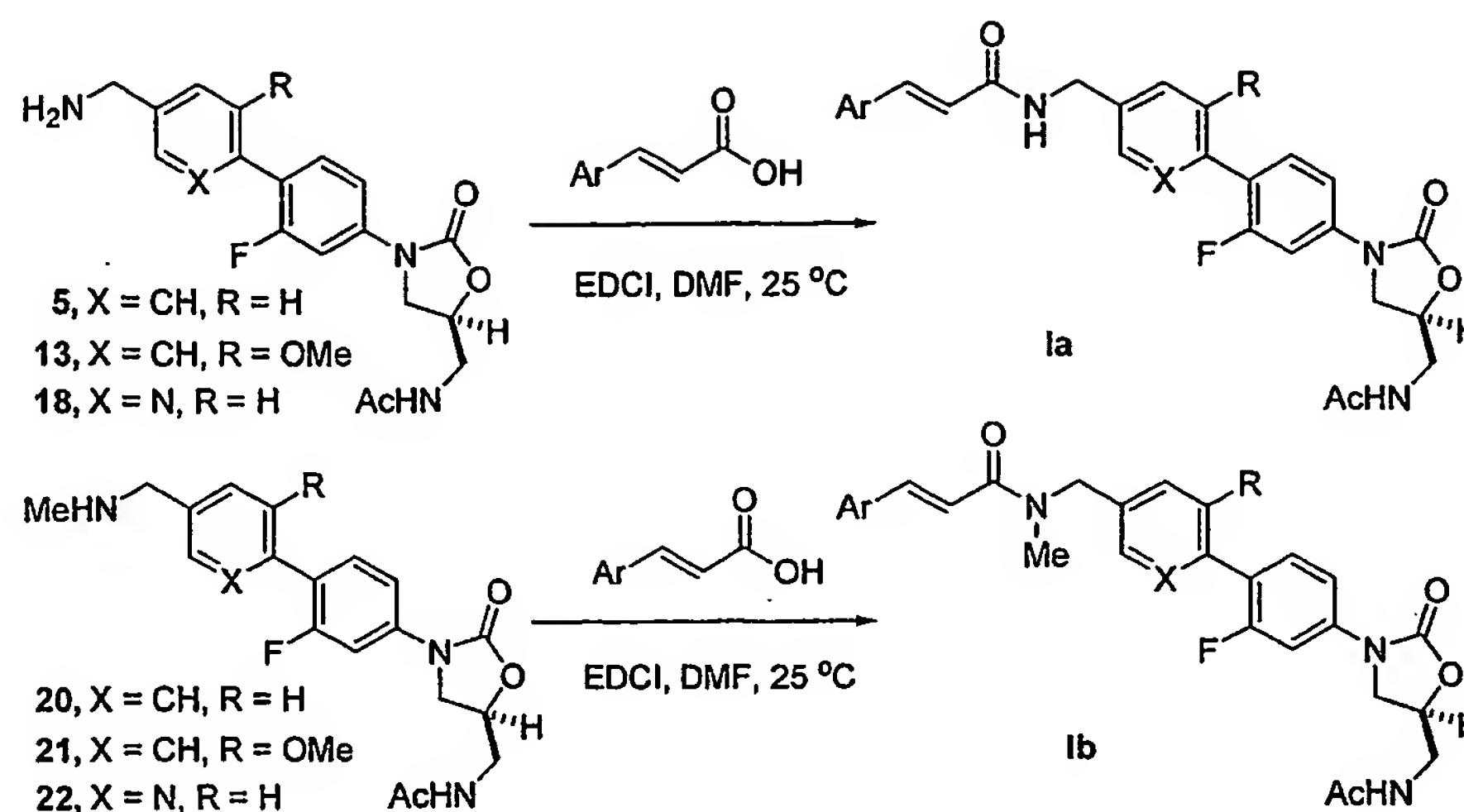
Biaryl aldehyde 19 (Scheme E) can be synthesized from a Suzuki coupling of iodide 1 and 4-formylphenylboronic acid. Scheme E illustrates how intermediate aldehydes of type 19, 9, and 14 can be converted via reductive amination chemistry to other amines, such as amines 20-22, which are useful as intermediates for the synthesis of certain compounds of the invention.

Scheme E



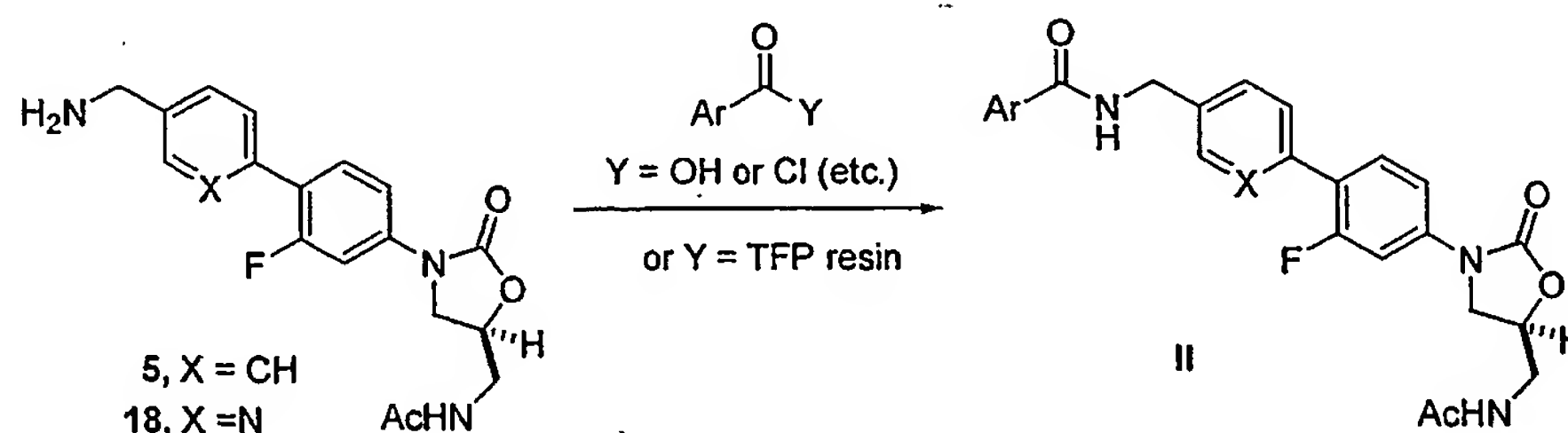
Scheme F depicts the general synthesis of compounds of type Ia and Ib from amines of type 5, 13, 18, and 20-22. Compounds of type Ia and Ib are synthesized via acylation of amines 5, 13 and 18 and 20-22 with the appropriate acids using, for example, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (EDCI) as the coupling agent. Compounds 4001-4007 were specifically synthesized from amine 5 and the appropriate carboxylic acids.

Scheme F



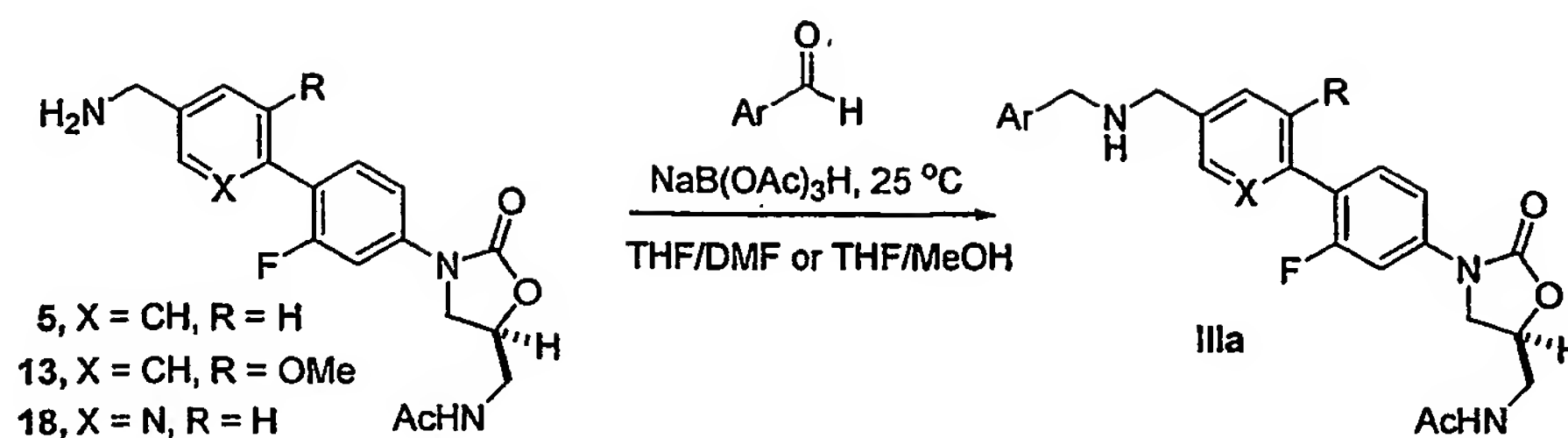
Scheme G highlights the synthesis of compounds of general structure II from amines of type 5 and 18. The amine can be acylated with carboxylic acids using EDCI (or other commonly employed peptide coupling reagents known in the art) to afford amides II. Acid chlorides can be purchased or synthesized and allowed to react with amines 5 and 18, in the presence of bases such as triethylamine, to also produce amides II. Alternatively, carboxylic acids can be pre-loaded onto a solid polymeric support, such as a tetrafluorophenol containing resin (TFP resin), and reacted with amines to yield amide products of general structure II (such as compounds 4008-4015).

Scheme G



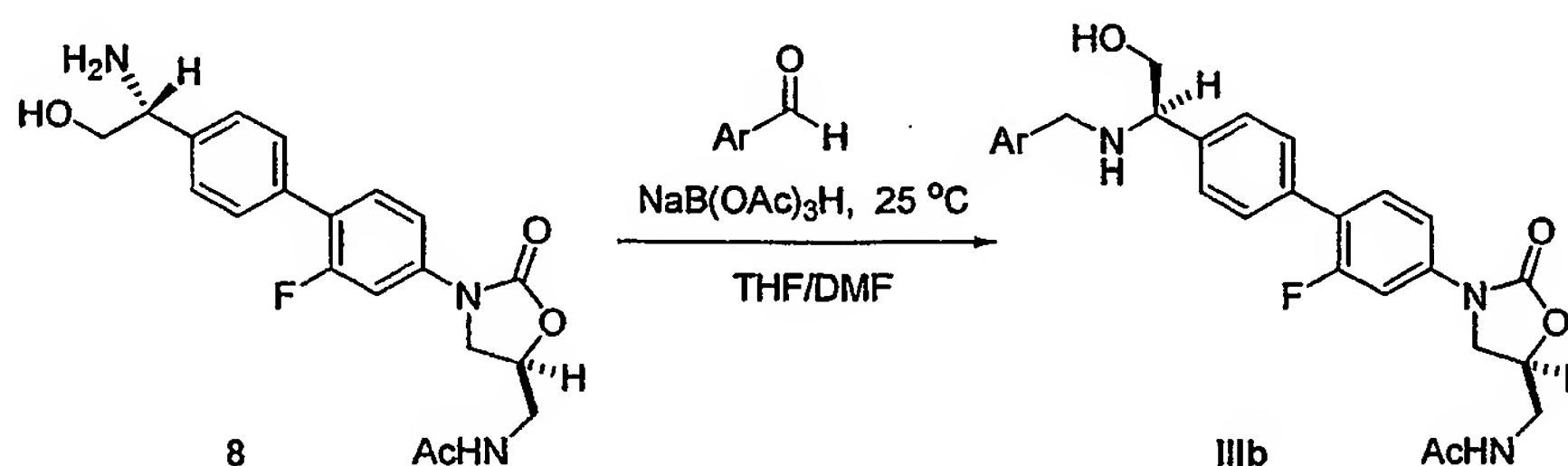
Scheme H illustrates the synthesis of compounds of general structure IIIa from amines of type 5, 13, and 18 using reductive amination chemistry. For example, biaryl amine compounds 4016-4028 are synthesized in this manner.

Scheme H



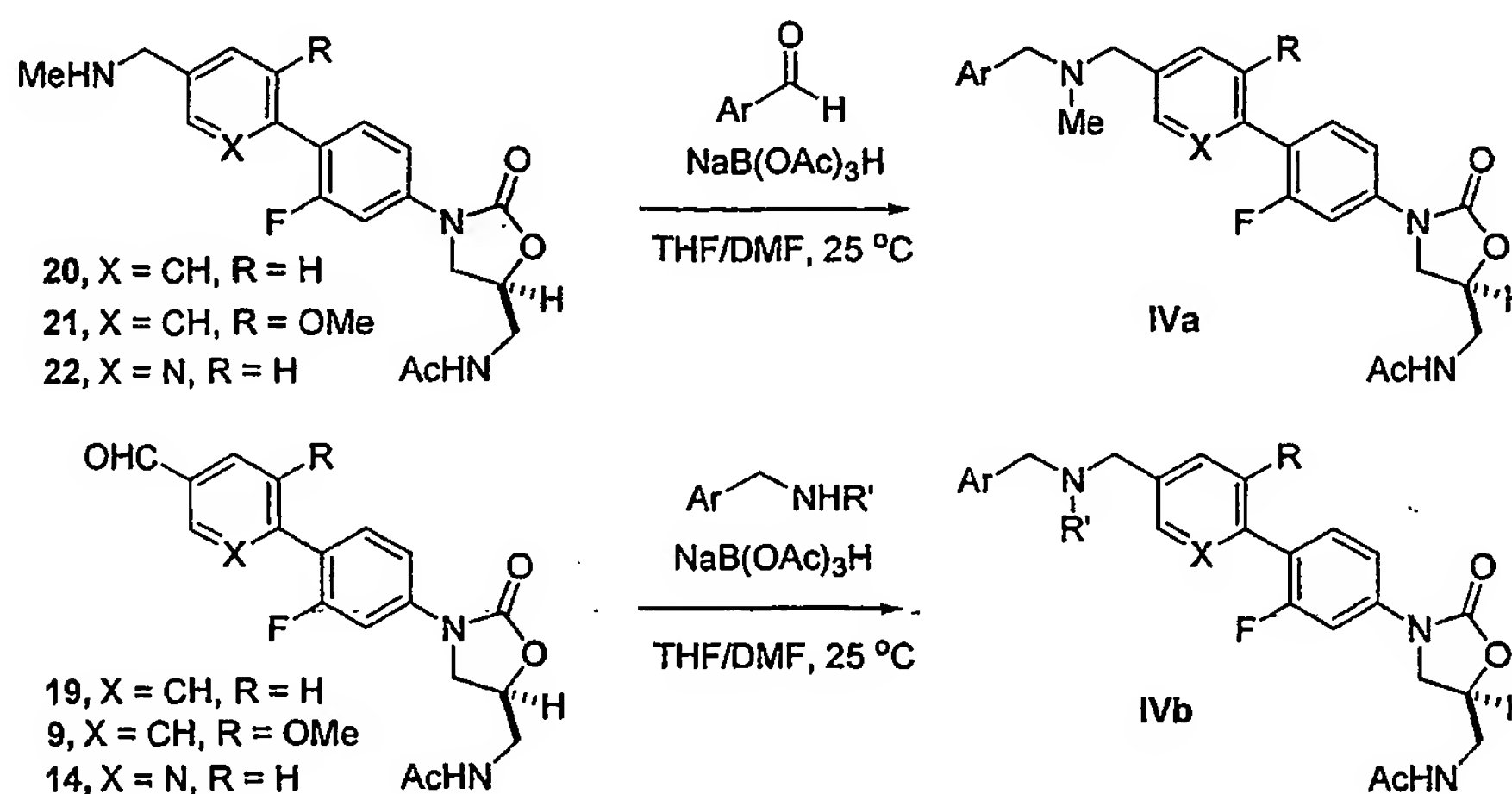
Scheme I depicts the synthesis of general structure IIIb of the present invention from amine intermediate 8. For example, compounds 4029-4031 are synthesized using this reductive amination chemistry.

Scheme I



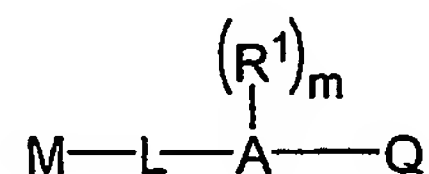
Scheme J shows the synthesis of compounds of general structure IVa and IVb. Amines 20, 21, and 22 can be converted to tertiary amines IVa, such as compounds 4032-4034 and 4036, using standard reductive amination chemistry employed earlier for other derivatives. This reductive amination chemistry can be employed on biaryl aldehyde intermediates such as 19, 9, and 14 to yield optionally substituted amines of general structure IVb, illustrated by compound 4037.

Scheme J

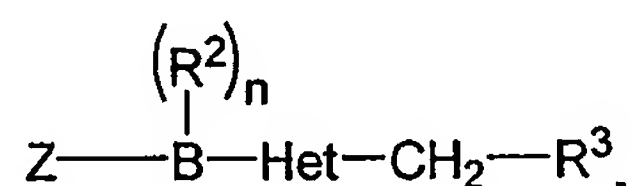


It should be noted that, when X is N, any of the synthetic routes described above may be used to produce compounds having any regioisomer of pyridine (e.g., pyridin-2-yl or pyridin-3-yl).

In addition, the invention provides alternative approaches for synthesizing compounds of the invention. In one approach, the method includes the step of combining a compound of formula (I):



with a compound of formula (II):



in a solvent in the presence of a base and a palladium catalyst, wherein

Q is a boronate having the formula $-BY_2$, wherein

Y, at each occurrence, independently is selected from the group consisting of:

a) $-OH$, and b) $-O-C_{1-4}$ alkyl,

alternatively, two Y groups taken together are selected from the group consisting of:

a) $-OC(R^4)(R^4)C(R^4)(R^4)O-$, and b) $-OC(R^4)(R^4)CH_2C(R^4)(R^4)O-$,

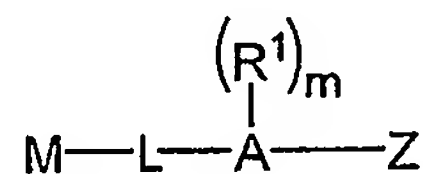
alternatively, two Y groups taken together with the boron to which they are bound comprise a BF_3 alkali metal salt;

Z is selected from the group consisting of:

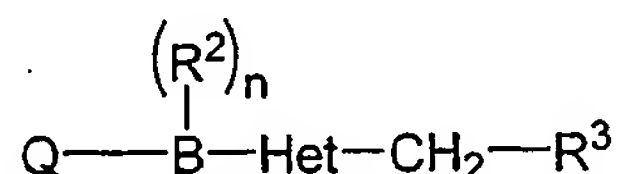
a) I, b) Br, c) Cl, and d) R^4OSO_3- ; and

A, B, Het, L, M, R^1 , R^2 , R^3 , R^4 , m, and n are defined as described above.

In another approach, the method includes the step of combining a compound of formula (III):

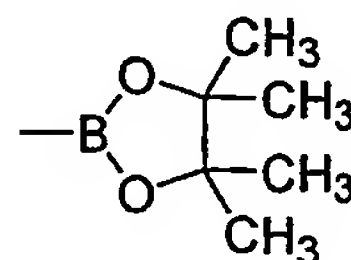


with a compound of formula (IV):



in a solvent in the presence of a base and a palladium catalyst, wherein A, B, Het, L, M, R¹, R², R³, R⁴, Q, Z, m, and n are defined as described above.

In either approach, Z can be I. Furthermore, Q can be -BF₂·KF or



5 In some embodiments, the base is selected from the group consisting of an alkali metal hydroxide, an alkali metal carbonate, an alkali metal fluoride, a trialkyl amine, and mixtures thereof. Examples of suitable bases include potassium carbonate, sodium carbonate, potassium fluoride, triethylamine, diisopropylethylamine, and mixtures thereof. In particular
10 embodiments, the ratio of equivalents of base to equivalents of compound (I) or compound (III) is about 3:1.

In some embodiments, the palladium catalyst is a ligand coordinated palladium (0) catalyst, such as a tetrakis(trialkylphosphine) palladium (0) or a tetrakis(triarylphosphine) palladium (0) catalyst. An example of a suitable palladium catalyst is
15 tetrakis(triphenylphosphine) palladium (0). In particular embodiments, the ratio of the equivalents of tetrakis(triphenylphosphine) palladium (0) to the equivalents of compound (I) or compound (III) is about 1:20.

In some embodiments, the solvent comprises an aqueous solvent. In other
embodiments, the solvent comprises a mixture of water and an organic solvent, wherein the organic solvent is selected from the group consisting of methanol, ethanol, propanol,
20 isopropanol, butanol, isobutanol, secondary butanol, tertiary butanol, benzene, toluene, tetrahydrofuran, dimethylformamide, 1,2-diethyl ether, dimethoxyethane, diisopropyl ether, methyltertiarybutyl ether, methoxymethyl ether, 2-methoxyethyl ether, 1,4-dioxane, 1,3-dioxolane, and mixtures thereof. In a particular embodiment, the solvent is a mixture of water, toluene, and ethanol in a ratio, for example, of about 1:3:1 by volume.

25 In some embodiments, the method is carried out at a temperature between about 20 °C and about 100 °C. In other embodiments, the process is carried out at the reflux temperature of the solvent.

4. Characterization of Compounds of the Invention

Compounds designed, selected and/or optimized by methods described above, once produced, may be characterized using a variety of assays known to those skilled in the art to determine whether the compounds have biological activity. For example, the molecules may
5 be characterized by conventional assays, including but not limited to those assays described below, to determine whether they have a predicted activity, binding activity and/or binding specificity.

Furthermore, high-throughput screening may be used to speed up analysis using such assays. As a result, it may be possible to rapidly screen the molecules described herein for
10 activity, for example, as anti-cancer, anti-bacterial, anti-fungal, anti-parasitic or anti-viral agents. Also, it may be possible to assay how the compounds interact with a ribosome or ribosomal subunit and/or are effective as modulators (for example, inhibitors) of protein synthesis using techniques known in the art. General methodologies for performing high-throughput screening are described, for example, in Devlin, *High Throughput Screening*,
15 (Marcel Dekker, 1998); and U.S. Patent No. 5,763,263. High-throughput assays can use one or more different assay techniques including, but not limited to, those described below.

(1) *Surface Binding Studies*. A variety of binding assays may be useful in screening new molecules for their binding activity. One approach includes surface plasmon resonance (SPR) that can be used to evaluate the binding properties of molecules of interest with respect
20 to a ribosome, ribosomal subunit or a fragment thereof.

SPR methodologies measure the interaction between two or more macromolecules in real-time through the generation of a quantum-mechanical surface plasmon. One device, (BIAcore Biosensor RTM from Pharmacia Biosensor, Piscatawy, N.J.) provides a focused beam of polychromatic light to the interface between a gold film (provided as a disposable
25 biosensor "chip") and a buffer compartment that can be regulated by the user. A 100 nm thick "hydrogel" composed of carboxylated dextran that provides a matrix for the covalent immobilization of analytes of interest is attached to the gold film. When the focused light interacts with the free electron cloud of the gold film, plasmon resonance is enhanced. The resulting reflected light is spectrally depleted in wavelengths that optimally evolved the
30 resonance. By separating the reflected polychromatic light into its component wavelengths (by means of a prism), and determining the frequencies that are depleted, the BIAcore establishes an optical interface which accurately reports the behavior of the generated surface plasmon

resonance. When designed as above, the plasmon resonance (and thus the depletion spectrum) is sensitive to mass in the evanescent field (which corresponds roughly to the thickness of the hydrogel). If one component of an interacting pair is immobilized to the hydrogel, and the interacting partner is provided through the buffer compartment, the interaction between the two components can be measured in real time based on the accumulation of mass in the evanescent field and its corresponding effects of the plasmon resonance as measured by the depletion spectrum. This system permits rapid and sensitive real-time measurement of the molecular interactions without the need to label either component.

(2) *Fluorescence Polarization*. Fluorescence polarization (FP) is a measurement technique that can readily be applied to protein-protein, protein-ligand, or RNA-ligand interactions in order to derive IC_{50} s and K_d s of the association reaction between two molecules. In this technique one of the molecules of interest is conjugated with a fluorophore. This is generally the smaller molecule in the system (in this case, the compound of interest). The sample mixture, containing both the ligand-probe conjugate and the ribosome, ribosomal subunit or fragment thereof, is excited with vertically polarized light. Light is absorbed by the probe fluorophores, and re-emitted a short time later. The degree of polarization of the emitted light is measured. Polarization of the emitted light is dependent on several factors, but most importantly on viscosity of the solution and on the apparent molecular weight of the fluorophore. With proper controls, changes in the degree of polarization of the emitted light depends only on changes in the apparent molecular weight of the fluorophore, which in-turn depends on whether the probe-ligand conjugate is free in solution, or is bound to a receptor. Binding assays based on FP have a number of important advantages, including the measurement of IC_{50} s and K_d s under true homogenous equilibrium conditions, speed of analysis and amenity to automation, and ability to screen in cloudy suspensions and colored solutions.

(3) *Protein Synthesis*. It is contemplated that, in addition to characterization by the foregoing biochemical assays, the compound of interest may also be characterized as a modulator (for example, an inhibitor of protein synthesis) of the functional activity of the ribosome or ribosomal subunit.

Furthermore, more specific protein synthesis inhibition assays may be performed by administering the compound to a whole organism, tissue, organ, organelle, cell, a cellular or subcellular extract, or a purified ribosome preparation and observing its pharmacological and

inhibitory properties by determining, for example, its inhibition constant (IC_{50}) for inhibiting protein synthesis. Incorporation of 3H leucine or ^{35}S methionine, or similar experiments can be performed to investigate protein synthesis activity. A change in the amount or the rate of protein synthesis in the cell in the presence of a molecule of interest indicates that the molecule is a modulator of protein synthesis. A decrease in the rate or the amount of protein synthesis indicates that the molecule is an inhibitor of protein synthesis.

Furthermore, the compounds may be assayed for anti-proliferative or anti-infective properties on a cellular level. For example, where the target organism is a microorganism, the activity of compounds of interest may be assayed by growing the microorganisms of interest in media either containing or lacking the compound. Growth inhibition may be indicative that the molecule may be acting as a protein synthesis inhibitor. More specifically, the activity of the compounds of interest against bacterial pathogens may be demonstrated by the ability of the compound to inhibit growth of defined strains of human pathogens. For this purpose, a panel of bacterial strains can be assembled to include a variety of target pathogenic species, some containing resistance mechanisms that have been characterized. Use of such a panel of organisms permits the determination of structure-activity relationships not only in regards to potency and spectrum, but also with a view to obviating resistance mechanisms. The assays may be performed in microtiter trays according to conventional methodologies as published by The National Committee for Clinical Laboratory Standards (NCCLS) guidelines (NCCLS. M7-A5-Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically; Approved Standard-Fifth Edition. NCCLS Document M100-S12/M7 (ISBN 1-56238-394-9)).

5. Formulation and Administration

The compounds of the invention may be useful in the prevention or treatment of a variety of human or other animal disorders, including for example, bacterial infection, fungal infections, viral infections, parasitic diseases, and cancer. It is contemplated that, once identified, the active molecules of the invention may be incorporated into any suitable carrier prior to use. The dose of active molecule, mode of administration and use of suitable carrier will depend upon the intended recipient and target organism. The formulations, both for veterinary and for human medical use, of compounds according to the present invention typically include such compounds in association with a pharmaceutically acceptable carrier.

The carrier(s) should be "acceptable" in the sense of being compatible with the other ingredients of the formulations and not deleterious to the recipient. Pharmaceutically acceptable carriers, in this regard, are intended to include any and all solvents, dispersion media, coatings, anti-bacterial and anti-fungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds (identified or designed according to the invention and/or known in the art) also can be incorporated into the compositions. The formulations may conveniently be presented in dosage unit form and may be prepared by any of the methods well known in the art of pharmacy/microbiology. In general, some formulations are prepared by bringing the compound into association with a liquid carrier or a finely divided solid carrier or both, and then, if necessary, shaping the product into the desired formulation.

A pharmaceutical composition of the invention should be formulated to be compatible with its intended route of administration. Examples of routes of administration include oral or parenteral, for example, intravenous, intradermal, inhalation, transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediaminetetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide.

Useful solutions for oral or parenteral administration can be prepared by any of the methods well known in the pharmaceutical art, described, for example, in *Remington's Pharmaceutical Sciences*, 18th ed. (Mack Publishing Company, 1990). Formulations for parenteral administration can also include glycocholate for buccal administration, methoxysalicylate for rectal administration, or citric acid for vaginal administration. The parenteral preparation can be enclosed in ampoules, disposable syringes or multiple dose vials made of glass or plastic. Suppositories for rectal administration also can be prepared by mixing

the drug with a non-irritating excipient such as cocoa butter, other glycerides, or other compositions which are solid at room temperature and liquid at body temperatures. Formulations also can include, for example, polyalkylene glycols such as polyethylene glycol, oils of vegetable origin, and hydrogenated naphthalenes. Formulations for direct administration can include glycerol and other compositions of high viscosity. Other potentially useful parenteral carriers for these drugs include ethylene-vinyl acetate copolymer particles, osmotic pumps, implantable infusion systems, and liposomes. Formulations for inhalation administration can contain as excipients, for example, lactose, or can be aqueous solutions containing, for example, polyoxyethylene-9-lauryl ether, glycocholate and deoxycholate, or oily solutions for administration in the form of nasal drops, or as a gel to be applied intranasally. Retention enemas also can be used for rectal delivery.

Formulations of the present invention suitable for oral administration may be in the form of: discrete units such as capsules, gelatin capsules, sachets, tablets, troches, or lozenges, each containing a predetermined amount of the drug; a powder or granular composition; a solution or a suspension in an aqueous liquid or non-aqueous liquid; or an oil-in-water emulsion or a water-in-oil emulsion. The drug may also be administered in the form of a bolus, electuary or paste. A tablet may be made by compressing or molding the drug optionally with one or more accessory ingredients. Compressed tablets may be prepared by compressing, in a suitable machine, the drug in a free-flowing form such as a powder or granules, optionally mixed by a binder, lubricant, inert diluent, surface active or dispersing agent. Molded tablets may be made by molding, in a suitable machine, a mixture of the powdered drug and suitable carrier moistened with an inert liquid diluent.

Oral compositions generally include an inert diluent or an edible carrier. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients. Oral compositions prepared using a fluid carrier for use as a mouthwash include the compound in the fluid carrier and are applied orally and swished and expectorated or swallowed. Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose; a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent

such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersion. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL™ (BASF, Parsippany, NJ) or phosphate buffered saline (PBS). It should be stable under the conditions of manufacture and storage and should be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as manitol, sorbitol, sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filter sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium and the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, methods of preparation include vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Formulations suitable for intra-articular administration may be in the form of a sterile aqueous preparation of the drug that may be in microcrystalline form, for example, in the form of an aqueous microcrystalline suspension. Liposomal formulations or biodegradable polymer systems may also be used to present the drug for both intra-articular and ophthalmic administration.

Formulations suitable for topical administration, including eye treatment, include liquid or semi-liquid preparations such as liniments, lotions, gels, applicants, oil-in-water or water-in-

oil emulsions such as creams, ointments or pastes; or solutions or suspensions such as drops. Formulations for topical administration to the skin surface can be prepared by dispersing the drug with a dermatologically acceptable carrier such as a lotion, cream, ointment or soap. Particularly useful are carriers capable of forming a film or layer over the skin to localize

5 application and inhibit removal. For topical administration to internal tissue surfaces, the agent can be dispersed in a liquid tissue adhesive or other substance known to enhance adsorption to a tissue surface. For example, hydroxypropylcellulose or fibrinogen/thrombin solutions can be used to advantage. Alternatively, tissue-coating solutions, such as pectin-containing formulations can be used.

10 For inhalation treatments, inhalation of powder (self-propelling or spray formulations) dispensed with a spray can, a nebulizer, or an atomizer can be used. Such formulations can be in the form of a fine powder for pulmonary administration from a powder inhalation device or self-propelling powder-dispensing formulations. In the case of self-propelling solution and spray formulations, the effect may be achieved either by choice of a valve having the desired
15 spray characteristics (*i.e.*, being capable of producing a spray having the desired particle size) or by incorporating the active ingredient as a suspended powder in controlled particle size. For administration by inhalation, the compounds also can be delivered in the form of an aerosol spray from pressured container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

20 Systemic administration also can be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants generally are known in the art, and include, for example, for transmucosal administration, detergents and bile salts. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For
25 transdermal administration, the active compounds typically are formulated into ointments, salves, gels, or creams as generally known in the art.

The active compounds may be prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can
30 be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. Liposomal suspensions can also be used as

pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Pat. No. 4,522,811.

Oral or parenteral compositions can be formulated in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form refers to physically discrete units
5 suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in
10 the art of compounding such an active compound for the treatment of individuals. Furthermore, administration can be by periodic injections of a bolus, or can be made more continuous by intravenous, intramuscular or intraperitoneal administration from an external reservoir (*e.g.*, an intravenous bag).

Where adhesion to a tissue surface is desired the composition can include the drug
15 dispersed in a fibrinogen-thrombin composition or other bioadhesive. The compound then can be painted, sprayed or otherwise applied to the desired tissue surface. Alternatively, the drugs can be formulated for parenteral or oral administration to humans or other mammals, for example, in effective amounts, *e.g.*, amounts that provide appropriate concentrations of the drug to target tissue for a time sufficient to induce the desired effect.

20 Where the active compound is to be used as part of a transplant procedure, it can be provided to the living tissue or organ to be transplanted prior to removal of tissue or organ from the donor. The compound can be provided to the donor host. Alternatively or, in addition, once removed from the donor, the organ or living tissue can be placed in a preservation solution containing the active compound. In all cases, the active compound can be
25 administered directly to the desired tissue, as by injection to the tissue, or it can be provided systemically, either by oral or parenteral administration, using any of the methods and formulations described herein and/or known in the art. Where the drug comprises part of a tissue or organ preservation solution, any commercially available preservation solution can be used to advantage. For example, useful solutions known in the art include Collins solution,
30 Wisconsin solution, Belzer solution, Eurocollins solution and lactated Ringer's solution.

Active compound as identified or designed by the methods described herein can be administered to individuals to treat disorders (prophylactically or therapeutically). In

conjunction with such treatment, pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, a physician or clinician may consider applying knowledge obtained in relevant pharmacogenomics studies in determining whether to administer a drug as well as tailoring the dosage and/or therapeutic regimen of treatment with the drug.

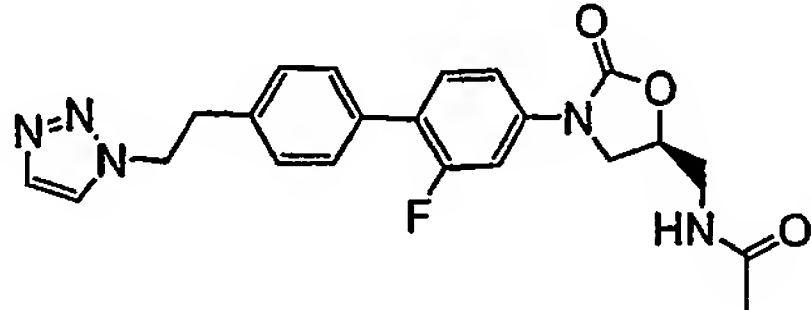
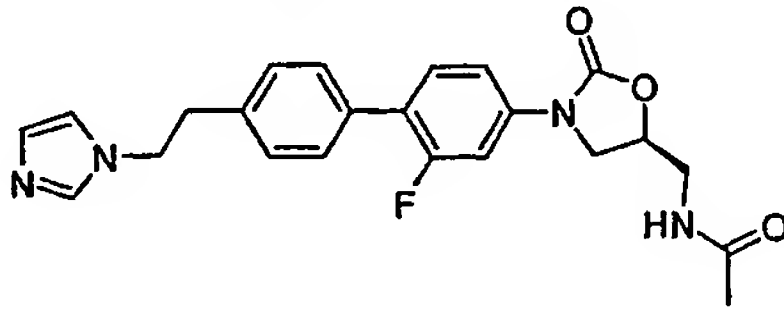
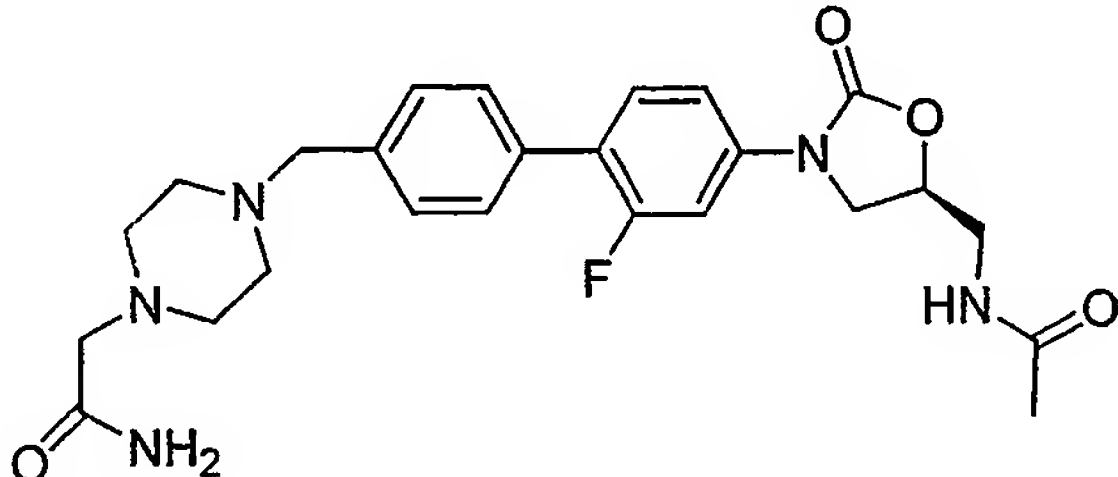
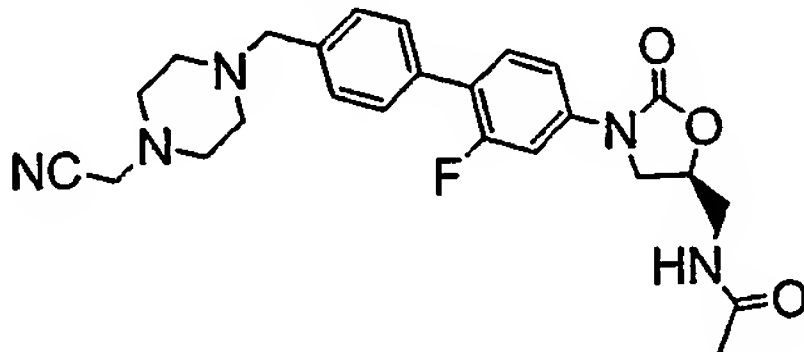
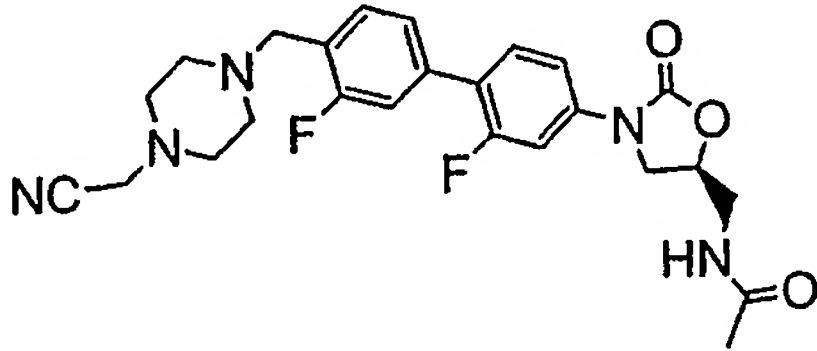
In therapeutic use for treating, or combating, bacterial infections in mammals, the compounds or pharmaceutical compositions thereof will be administered orally, parenterally and/or topically at a dosage to obtain and maintain a concentration, that is, an amount, or blood-level or tissue level of active component in the animal undergoing treatment which will be anti-microbially effective. The term "effective amount" is understood to mean that the compound of the invention is present in or on the recipient in an amount sufficient to elicit biological activity, for example, anti-microbial activity, anti-fungal activity, anti-viral activity, anti-parasitic activity, and/or anti-proliferative activity. Generally, an effective amount of dosage of active component will be in the range of from about 0.1 to about 100, more preferably from about 1.0 to about 50 mg/kg of body weight/day. The amount administered will also likely depend on such variables as the type and extent of disease or indication to be treated, the overall health status of the particular patient, the relative biological efficacy of the compound delivered, the formulation of the drug, the presence and types of excipients in the formulation, and the route of administration. Also, it is to be understood that the initial dosage administered may be increased beyond the above upper level in order to rapidly achieve the desired blood-level or tissue level, or the initial dosage may be smaller than the optimum and the daily dosage may be progressively increased during the course of treatment depending on the particular situation. If desired, the daily dose may also be divided into multiple doses for administration, for example, two to four times per day.

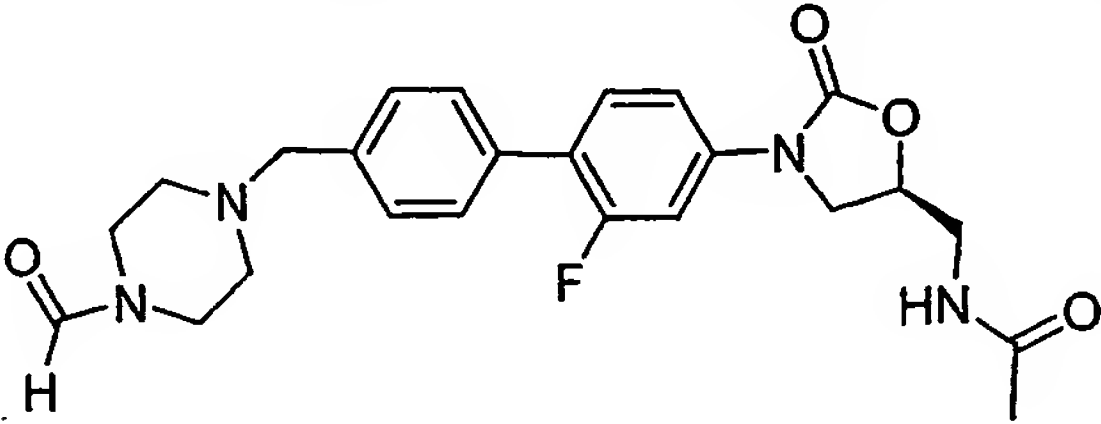
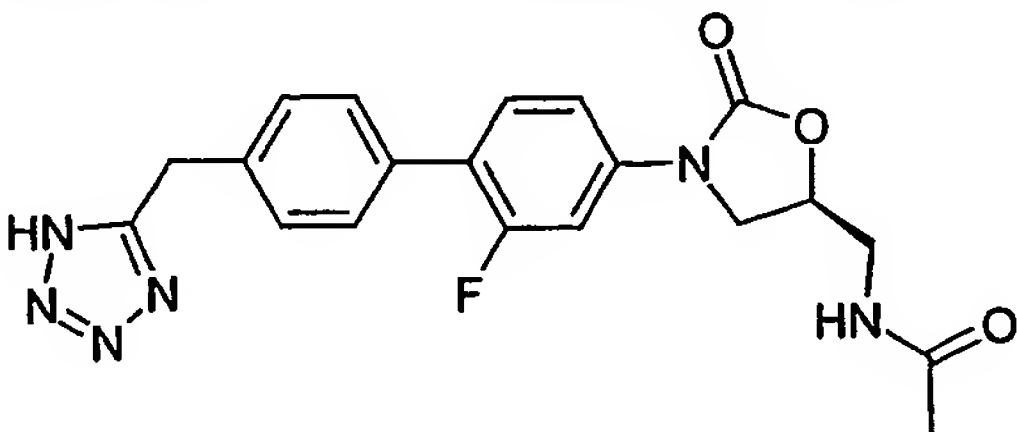
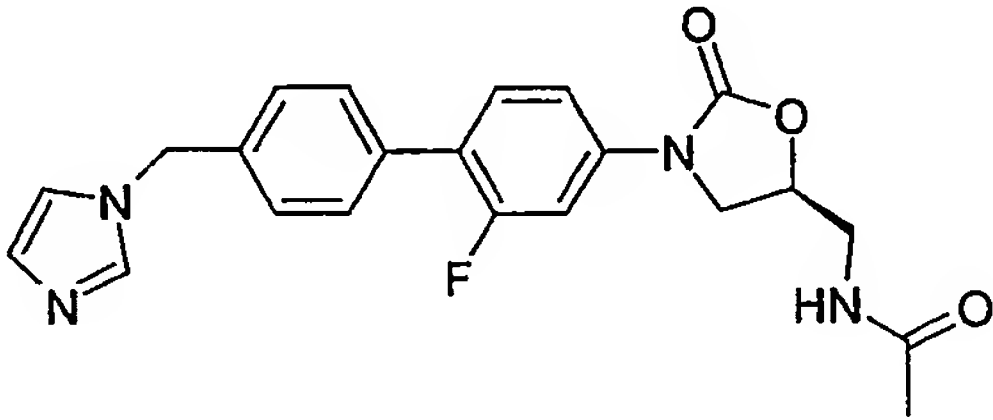
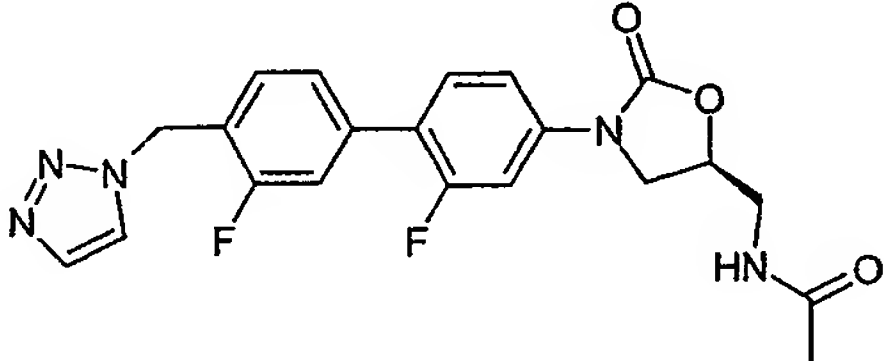
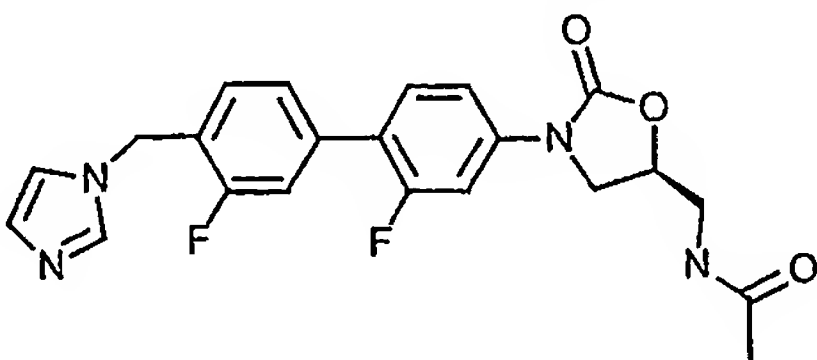
6. Examples

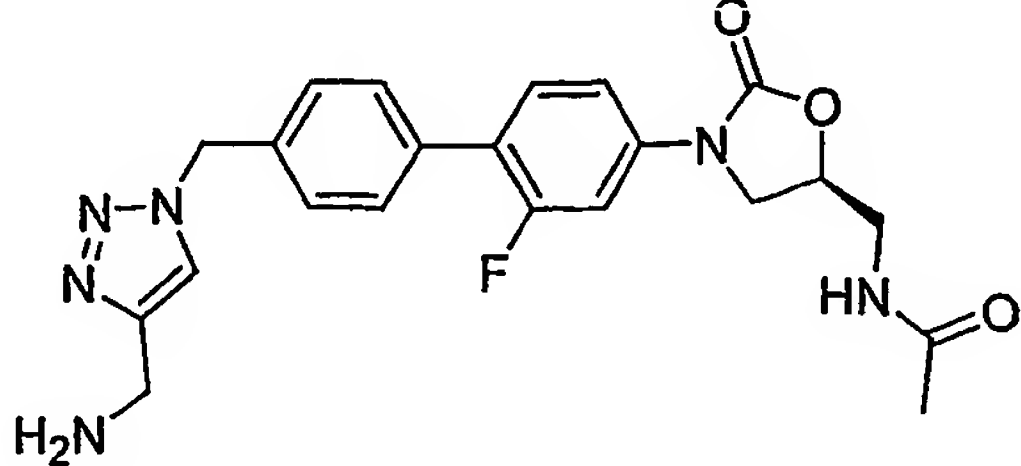
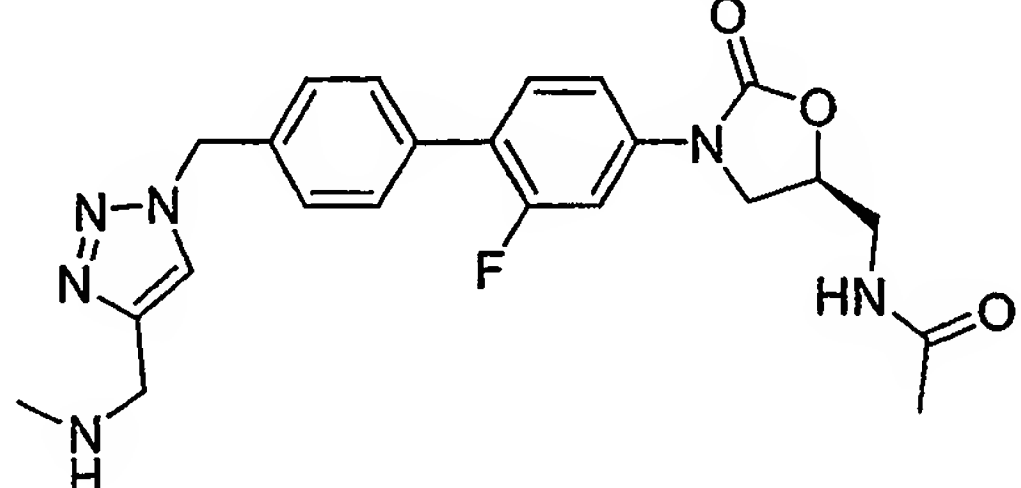
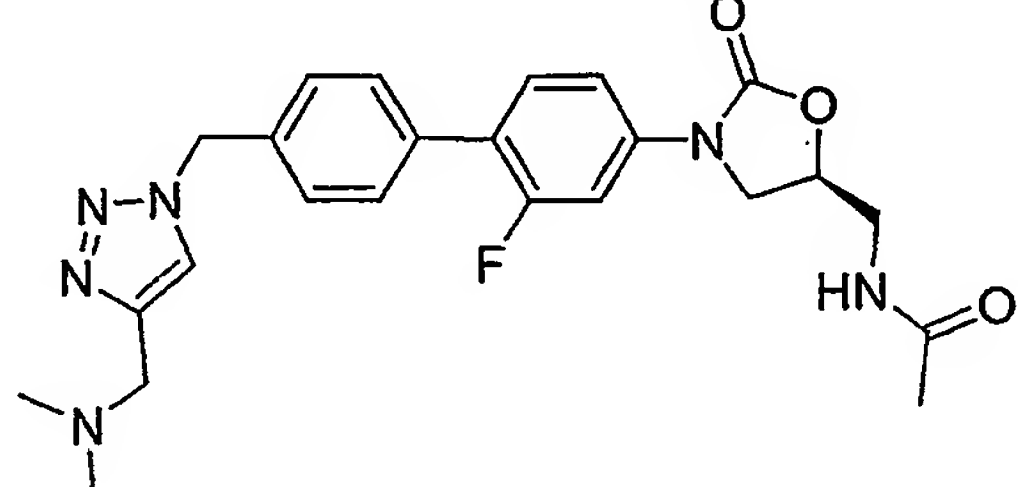
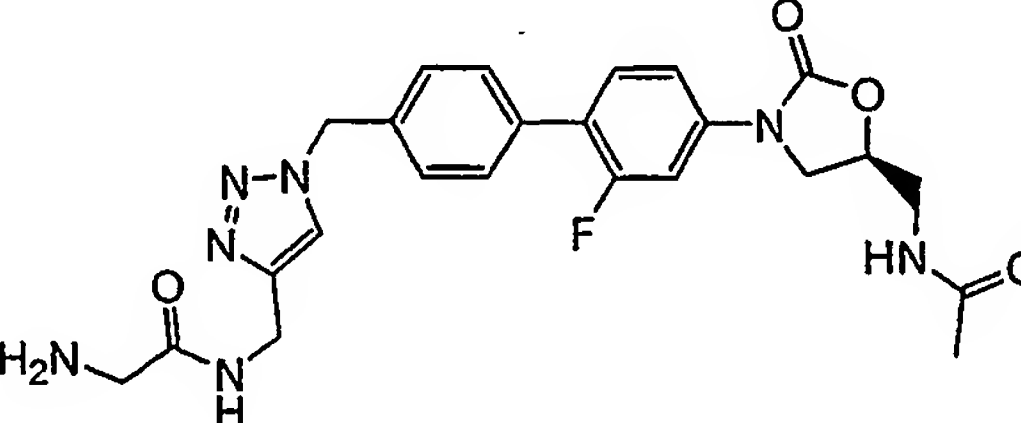
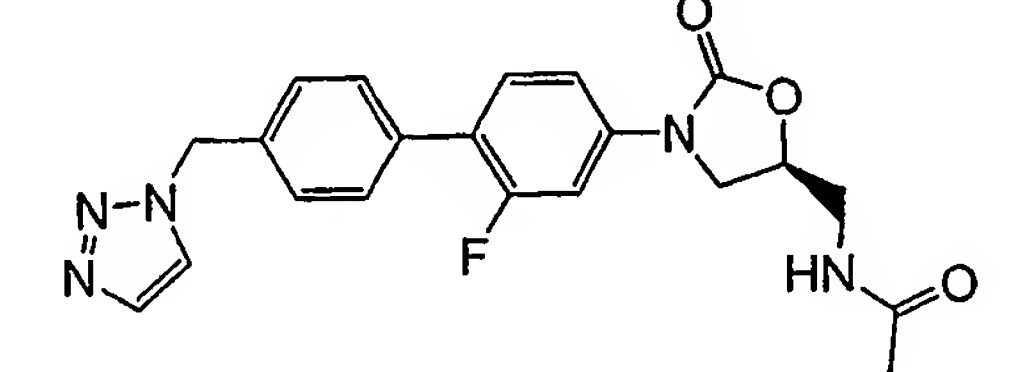
Exemplary compounds synthesized in accordance with the invention are listed in Table

2.

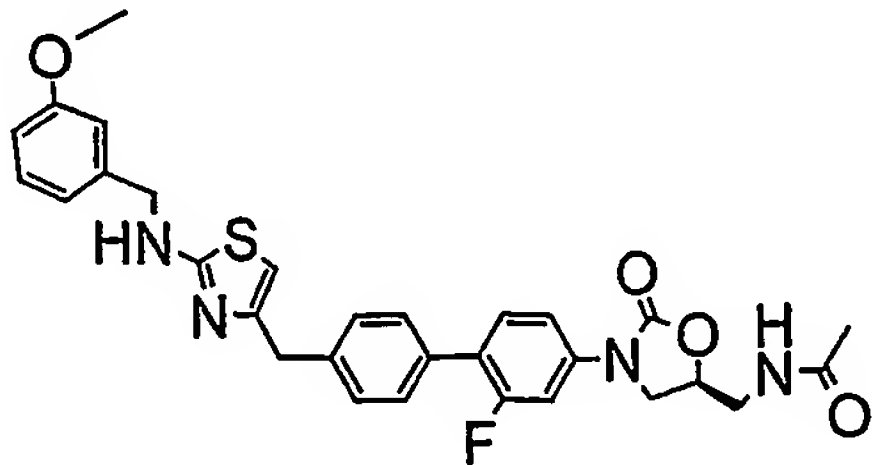
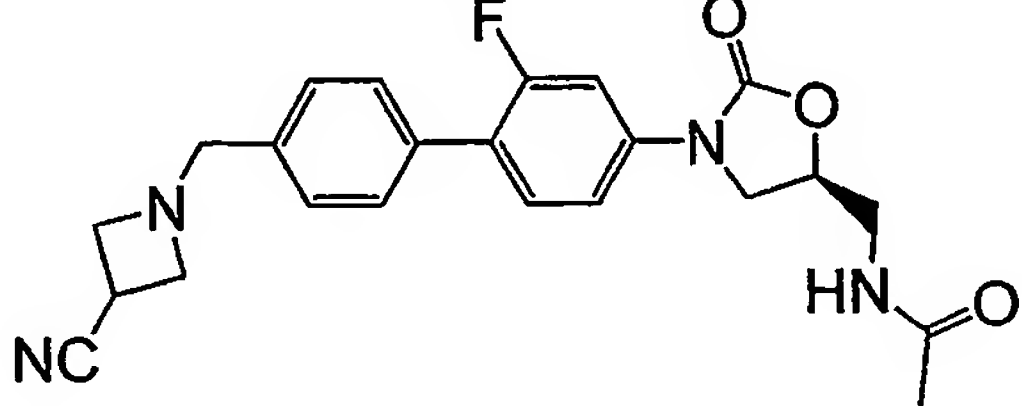
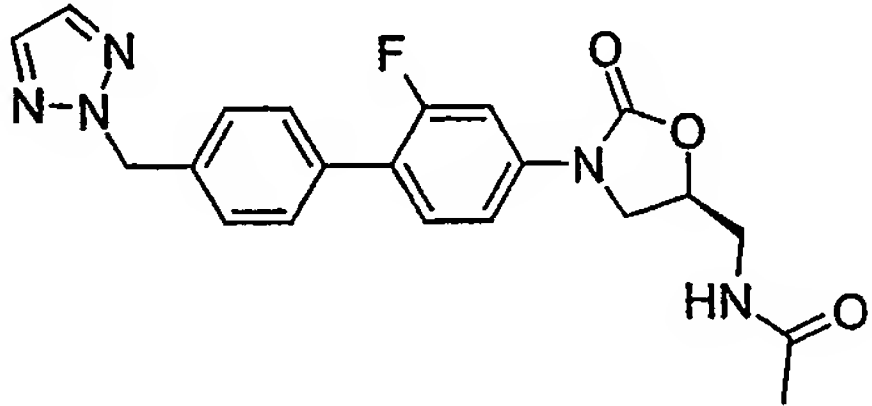
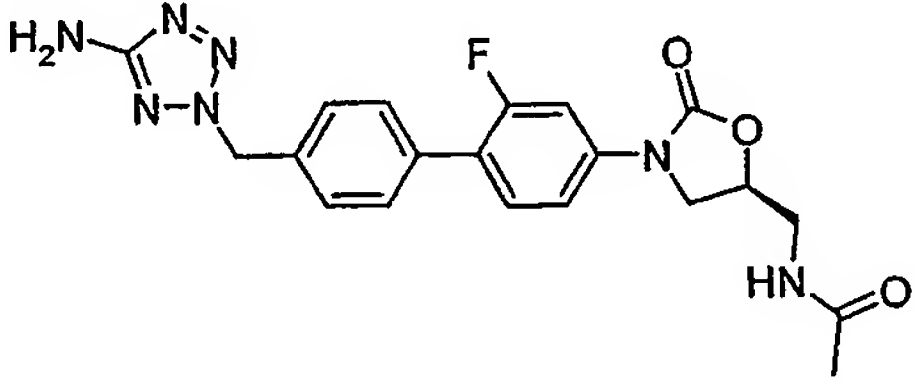
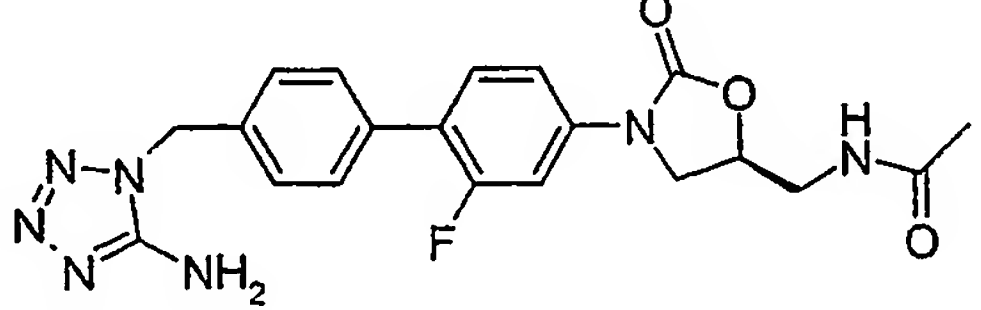
Table 2

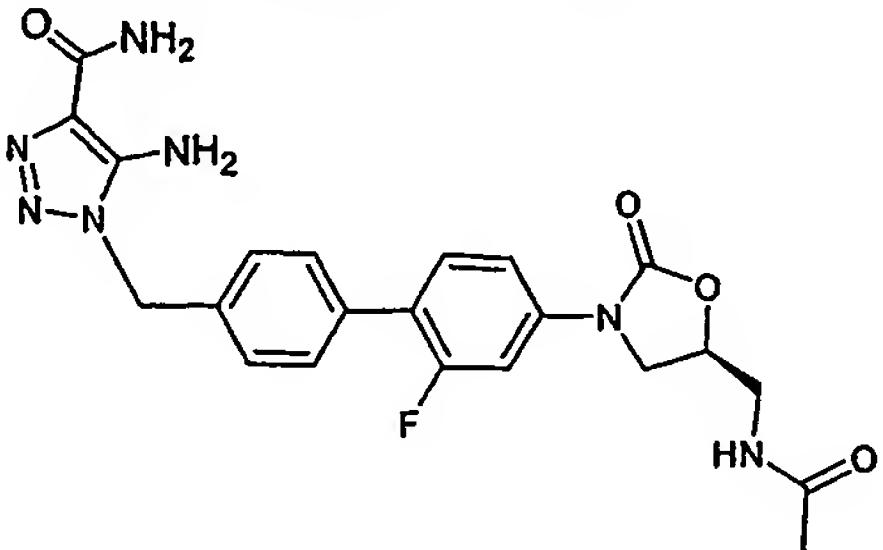
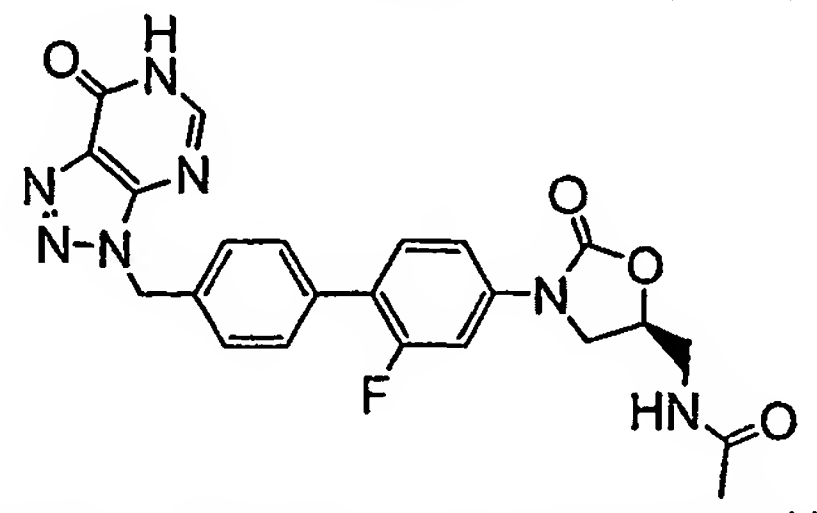
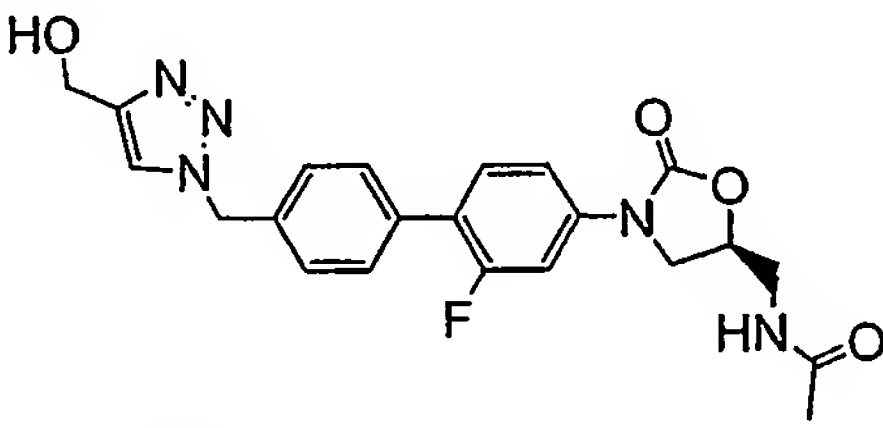
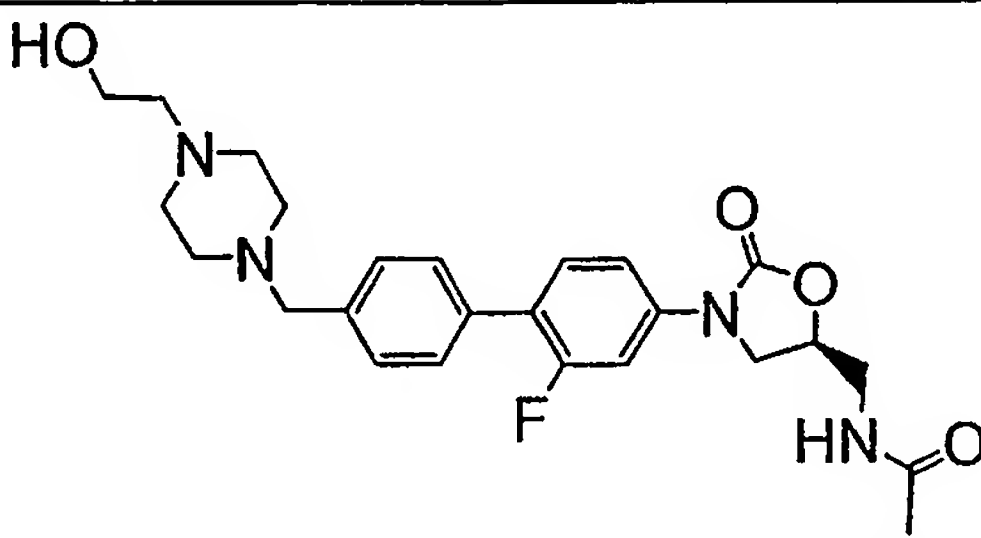
Compound Number	Structure
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	N-{3-[2-Fluoro-4'-(2-[1,2,3]triazol-1-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1002	
	N-{3-[2-Fluoro-4'-(2-imidazol-1-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1003	
	2-(4-{4'-[5-(S)-(Acetylaminomethyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-piperazin-1-yl)-acetamide
1004	
	N-{3-[4'-(4-Cyanomethyl-piperazin-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1005	
	N-{3-[4'-(4-Cyanomethyl-piperazin-1-ylmethyl)-2,3'-difluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

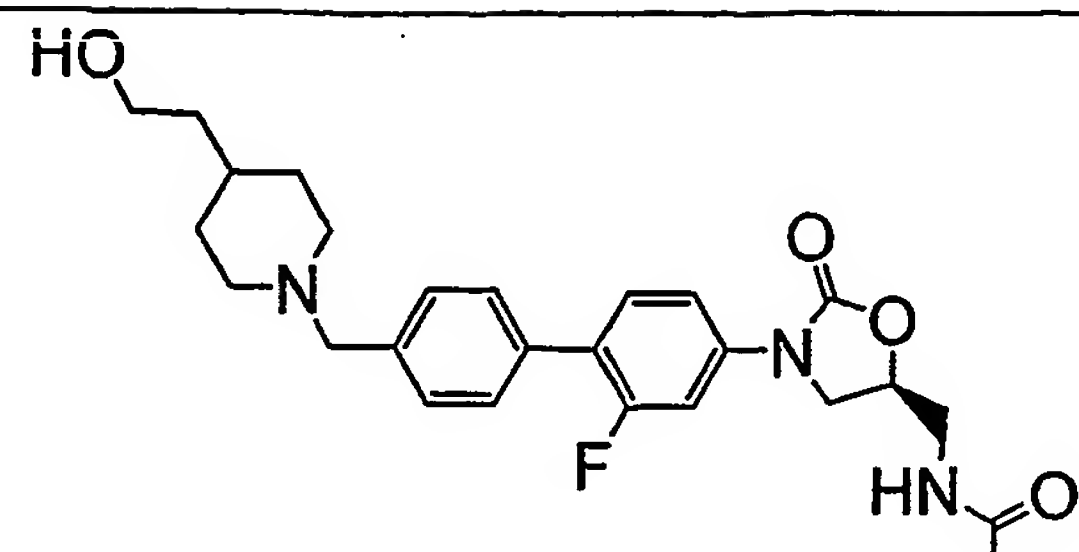
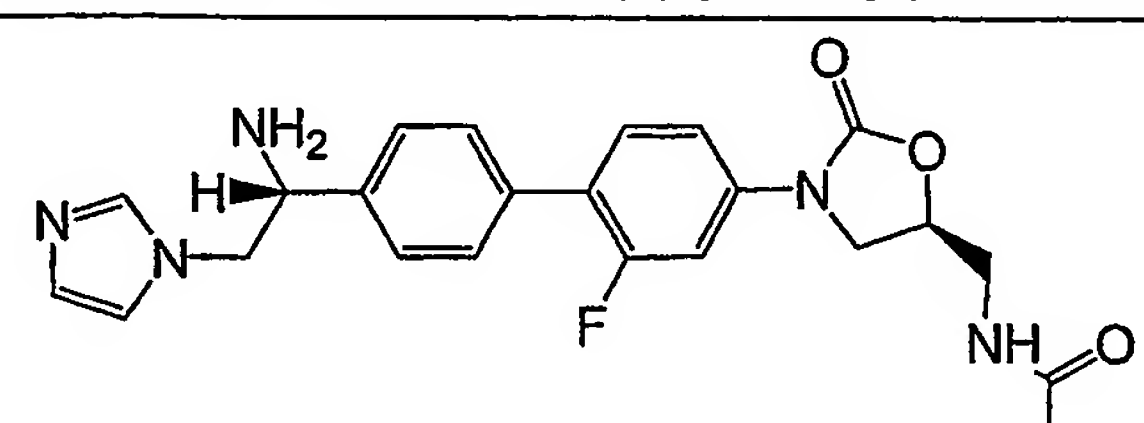
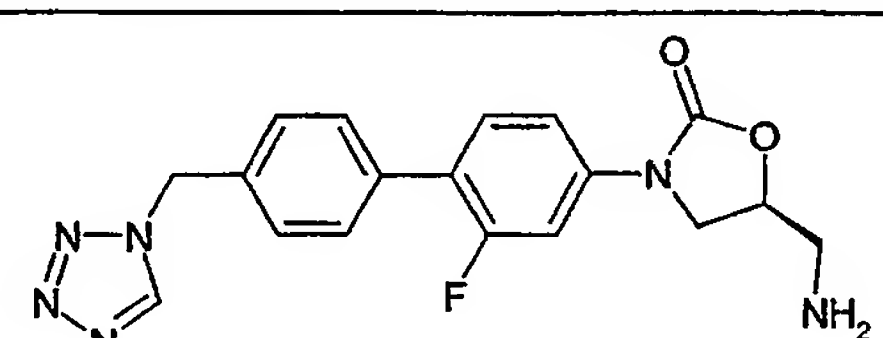
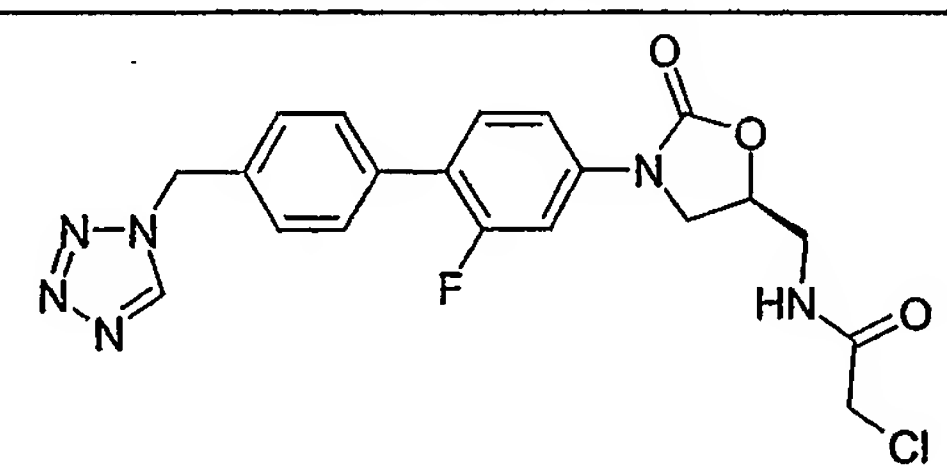
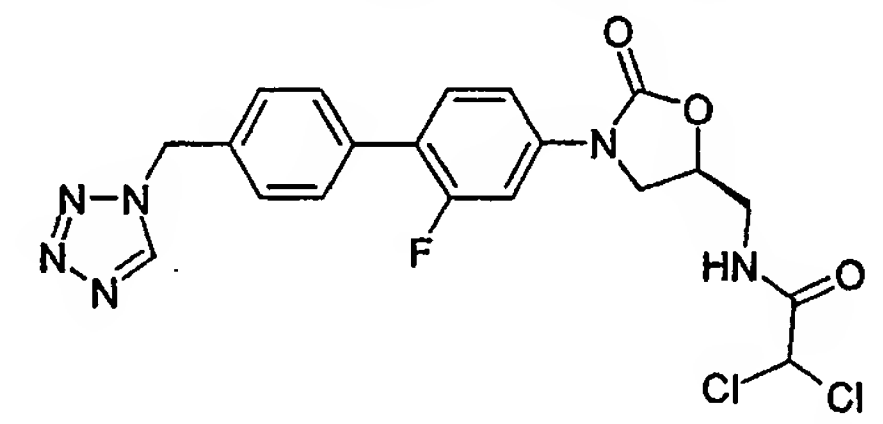
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	N-{3-[2-Fluoro-4'-(4-formyl-piperazin-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1007	
	N-{3-[2-Fluoro-4'-(1H-tetrazol-5-(S)-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1008	
	N-[3-(2-Fluoro-4'-imidazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1009	
	N-[3-(2,3'-Difluoro-4'-[1,2,3]triazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1010	
	N-[3-(2,3'-Difluoro-4'-imidazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

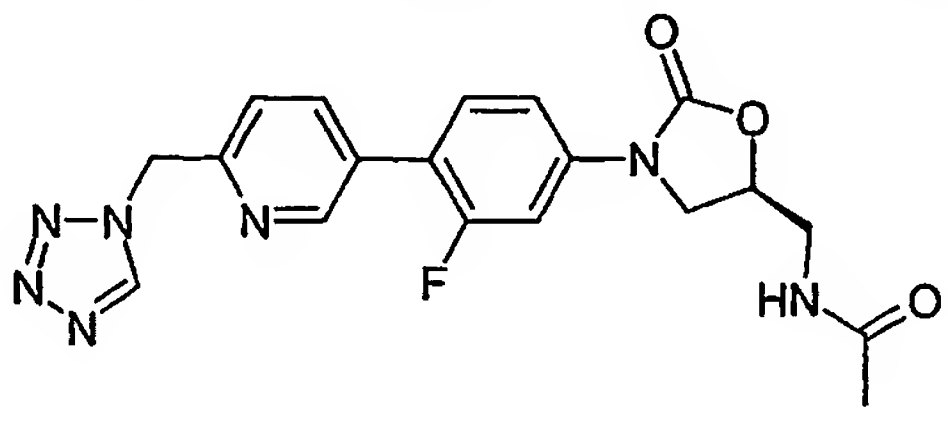
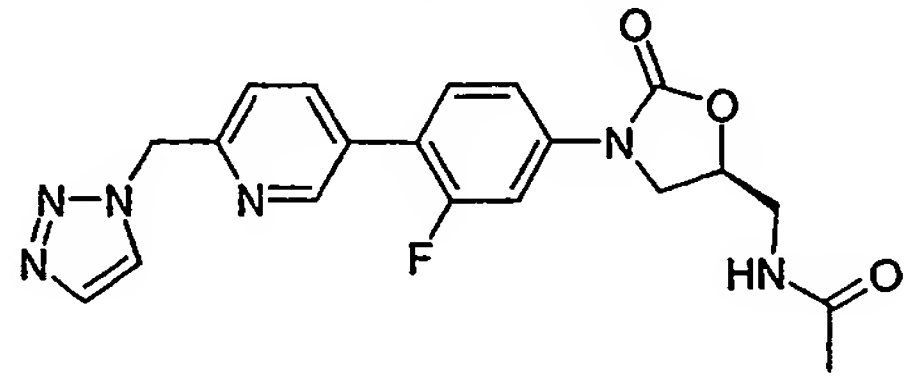
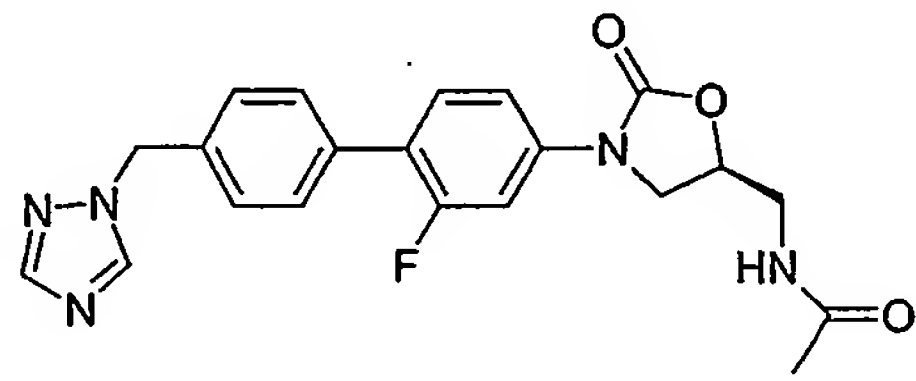
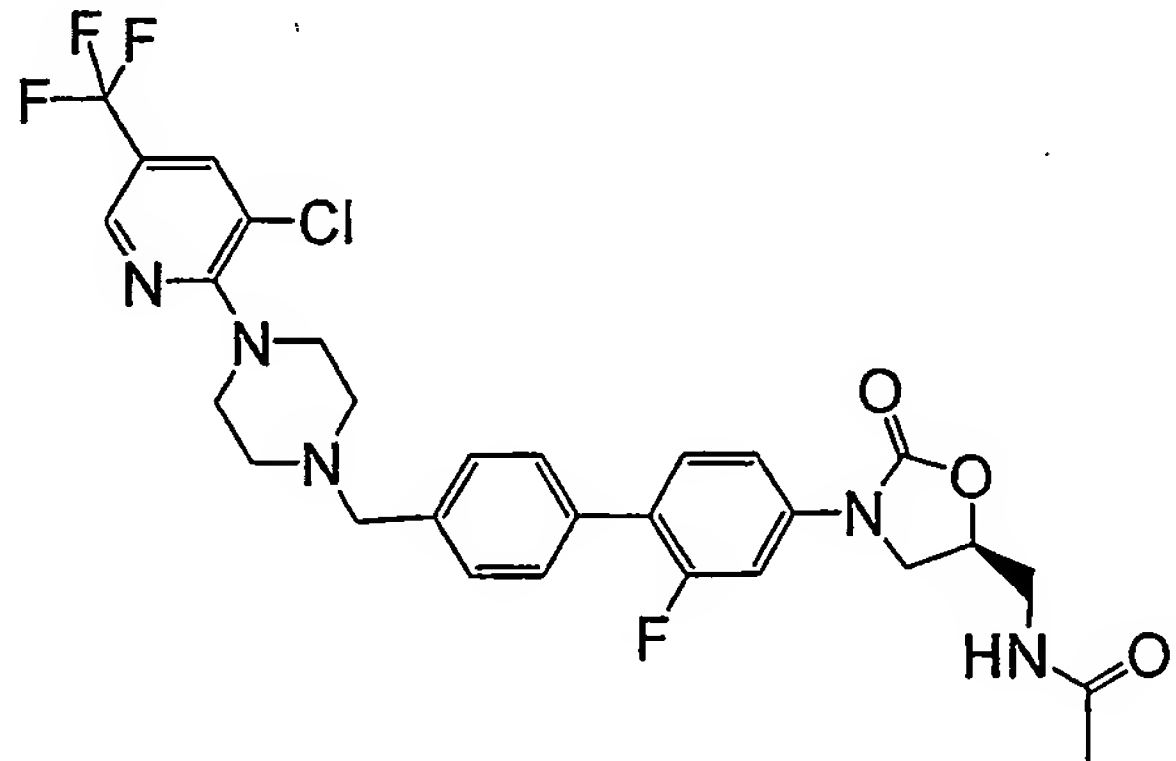
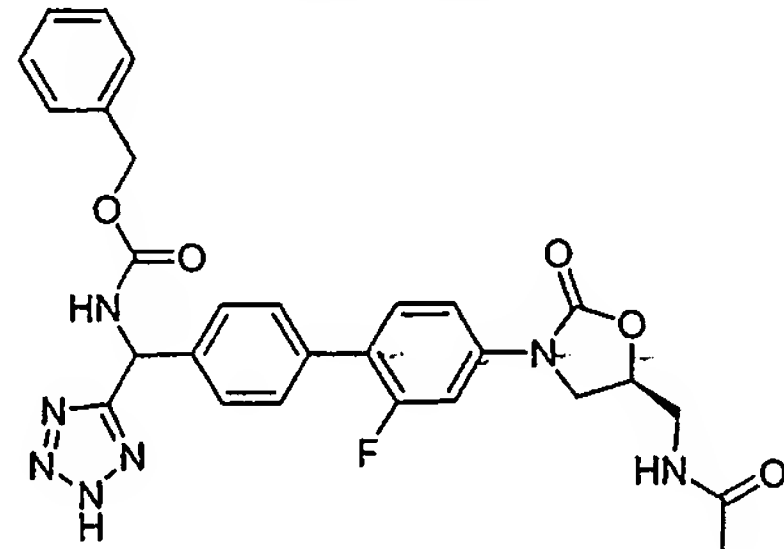
1011	
	N-{3-[4'-(4-Aminomethyl-[1,2,3]triazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1012	
	N-{3-[2-Fluoro-4'-(4-methylaminomethyl-[1,2,3]triazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1013	
	N-{3-[4'-(4-Dimethylaminomethyl-[1,2,3]triazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1014	
	N-(1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-1H-[1,2,3]triazol-4-ylmethyl)-2-amino-acetamide
1015	
	N-[3-(2-Fluoro-4'-[1,2,3]triazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

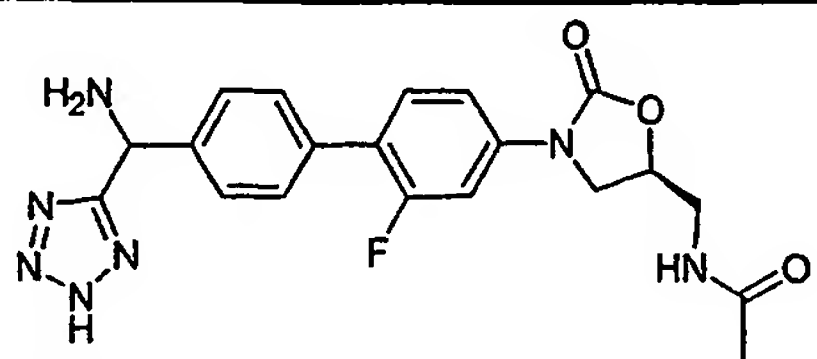
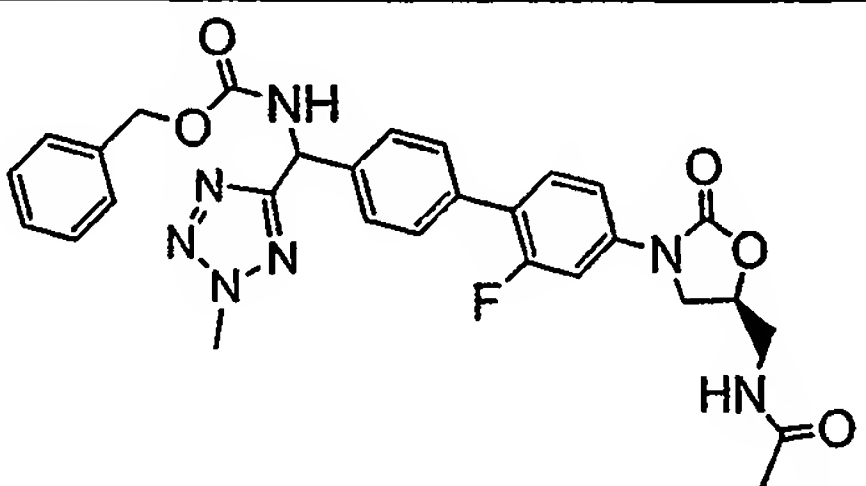
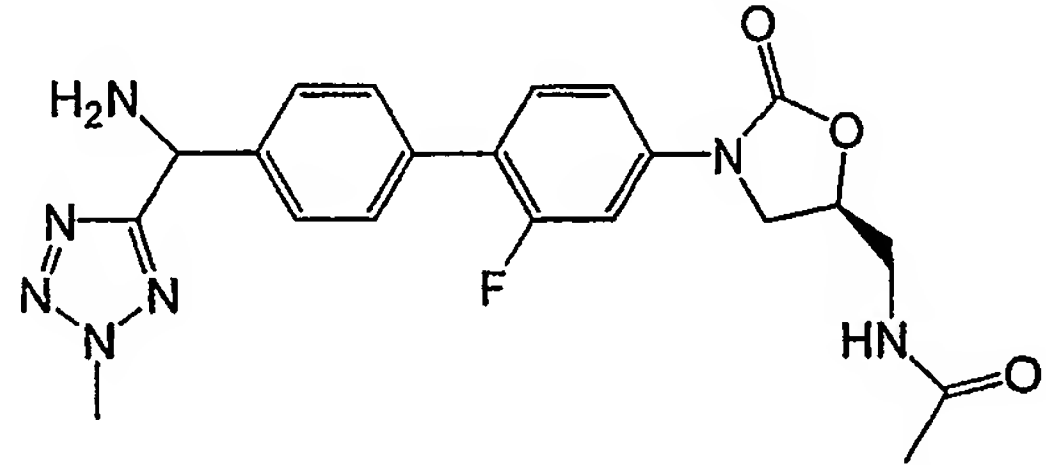
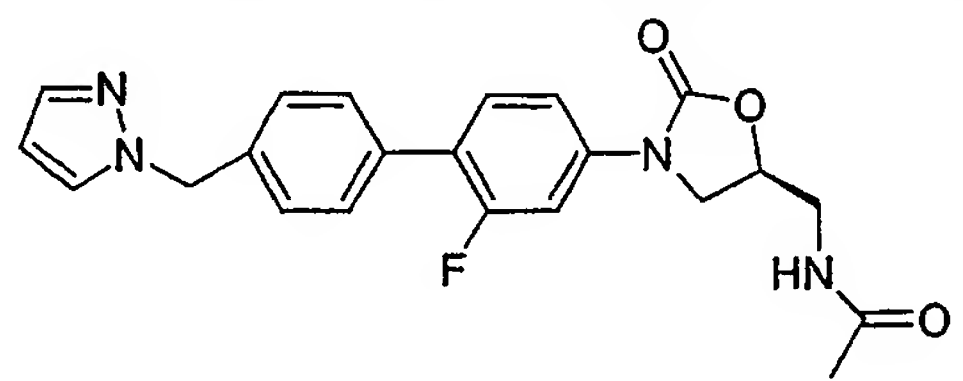
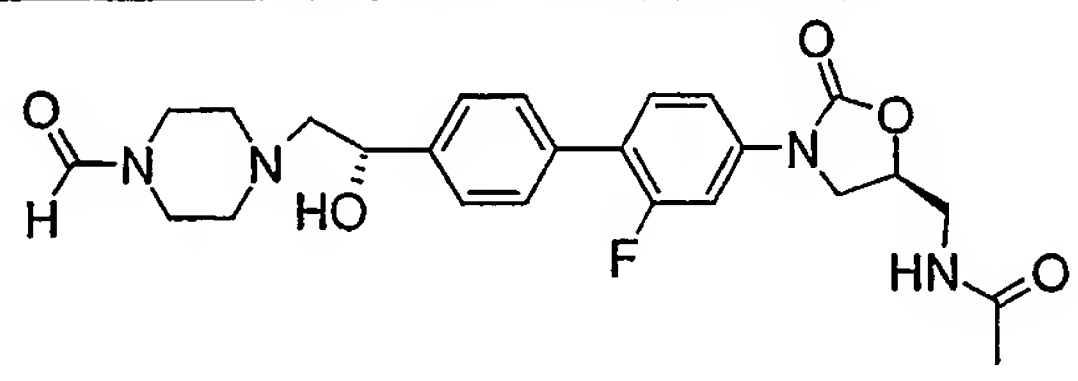
1016	
	N-{3-[2-Fluoro-4'-(5-(S)-oxo-2,5-(S)-dihydro-[1,2,4]oxadiazol-3-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1017	
	N-{3-[2-Fluoro-4'-(5-(S)-methyl-[1,2,4]oxadiazol-3-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1018	
	N-{3-[2,6-Difluoro-4'-(4-hydroxymethyl-[1,2,3]triazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1019	
	N-{3-[4'-(4-Dimethylaminomethyl-[1,2,3]triazol-1-ylmethyl)-2,6-difluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1020	
	N-[3-(2-Fluoro-4'-{2-[(tetrahydro-furan-2-ylmethyl)-amino]-thiazol-4-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

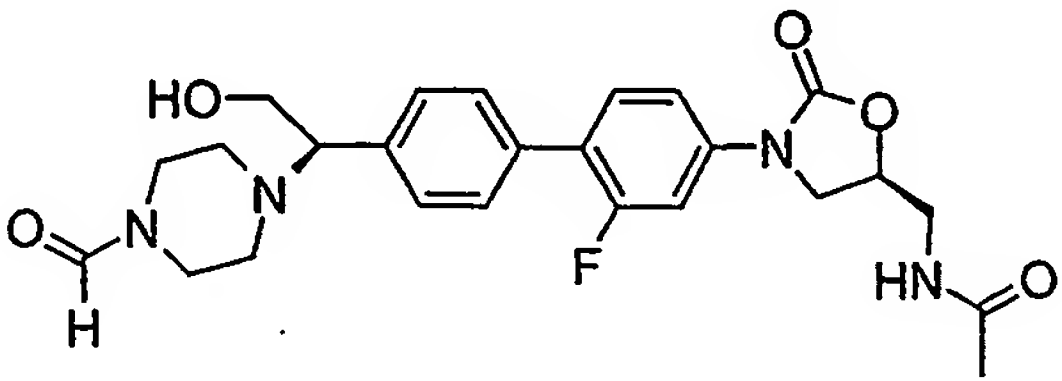
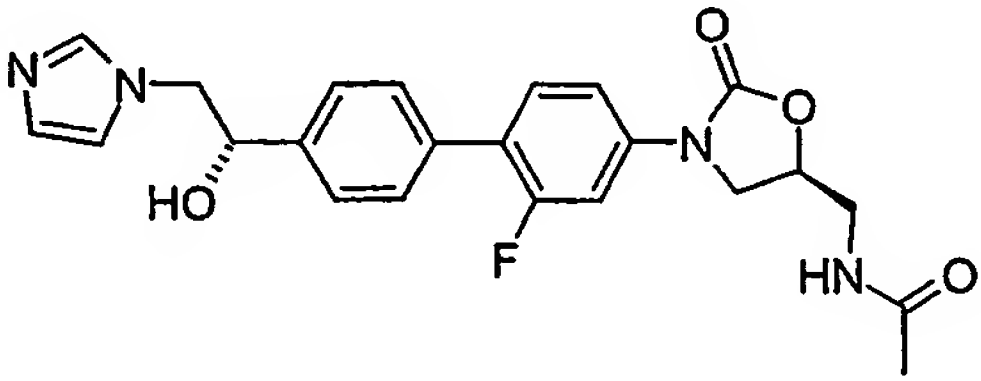
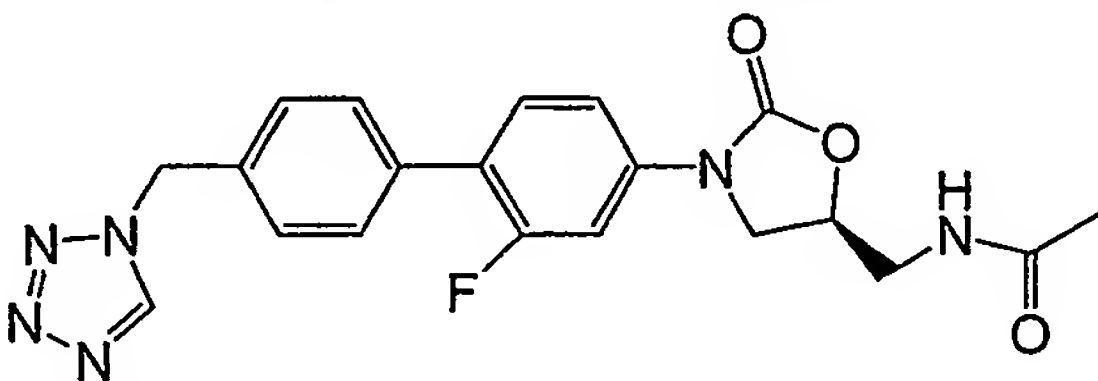
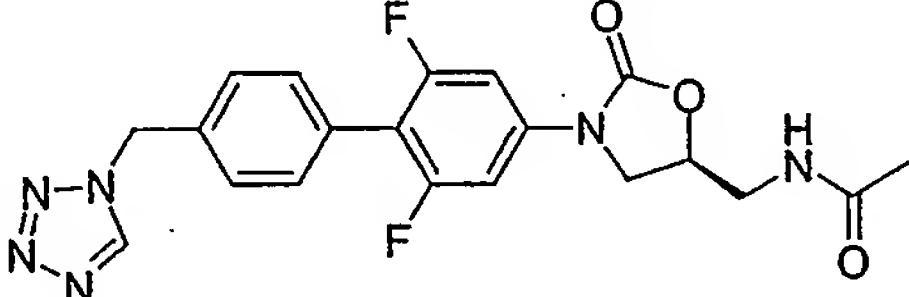
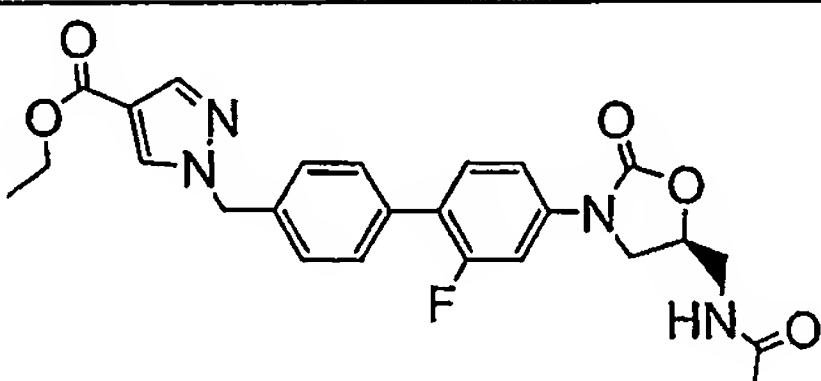
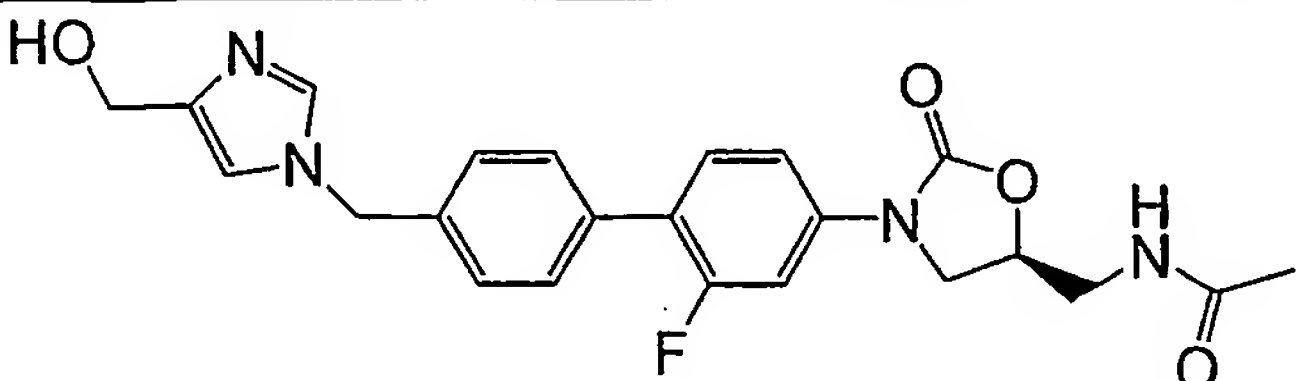
1021	
	N-(3-{2-Fluoro-4'-[2-(3-methoxy-benzylamino)-thiazol-4-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1022	
	N-{3-[4'-(3-Cyano-azetidin-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1023	
	N-[3-(2-Fluoro-4'-[1,2,3]triazol-2-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1024	
	N-{3-[4'-(5-Amino-tetrazol-2-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1025	
	N-{3-[4'-(5-Amino-tetrazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

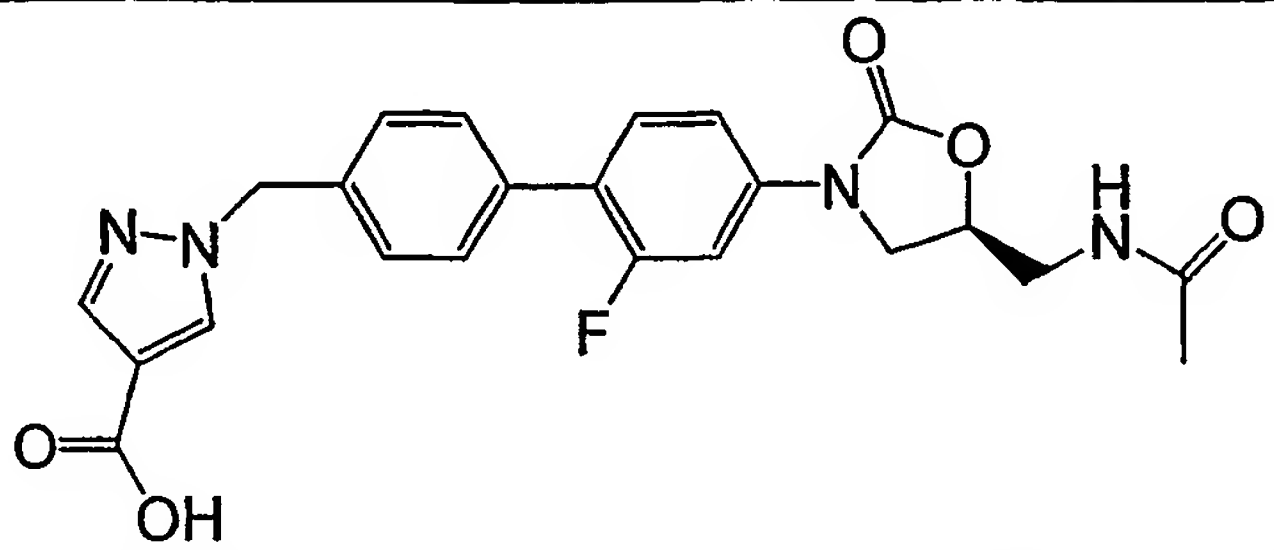
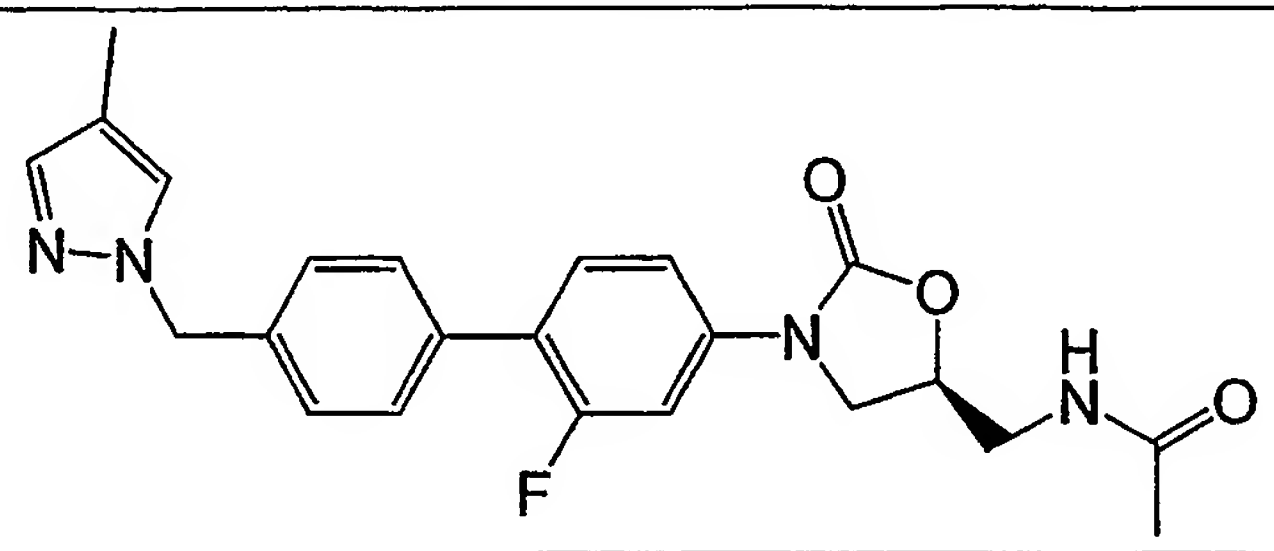
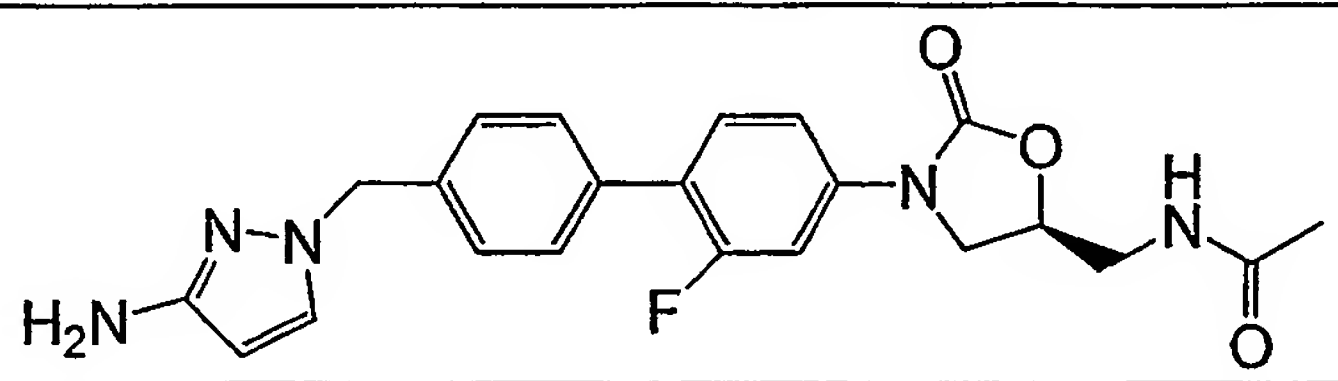
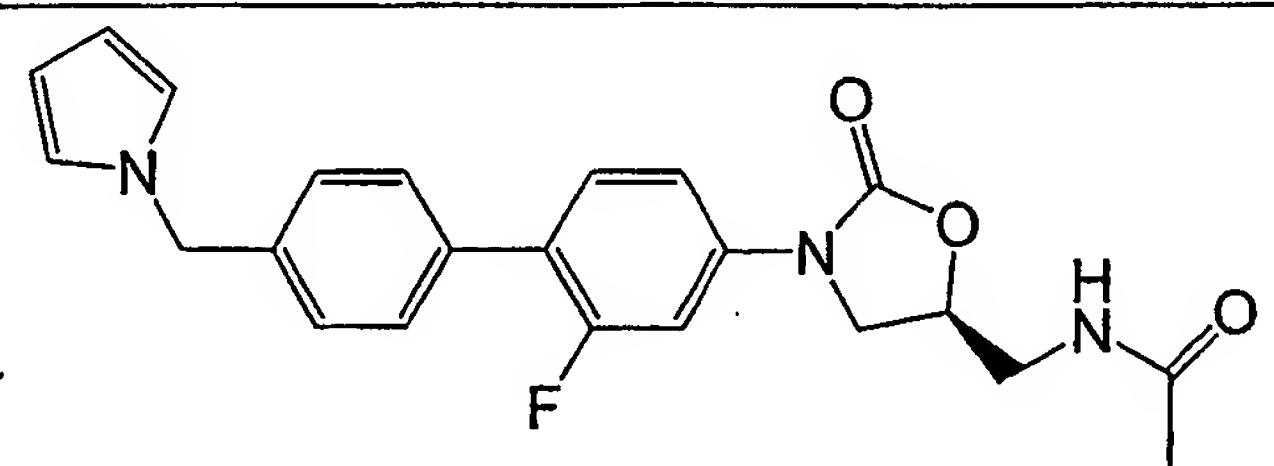
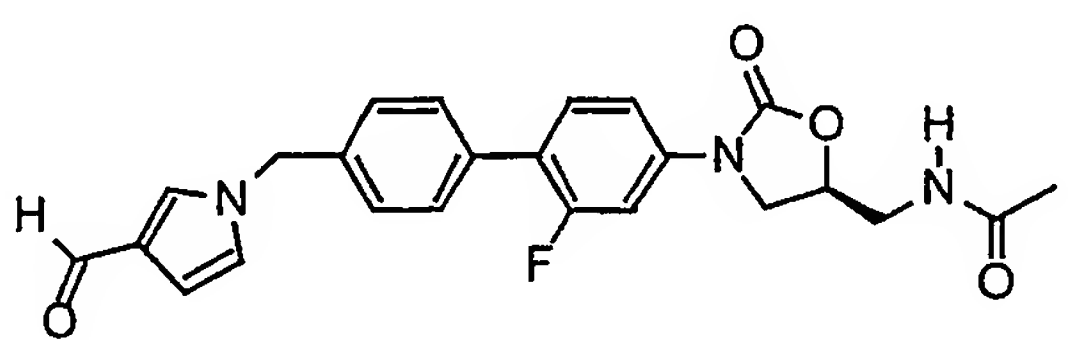
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	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-5-amino-1H-[1,2,3]triazole-4-carboxylic acid amide
1027	
	N-{3-[2-Fluoro-4'-(7-oxo-6,7-dihydro-[1,2,3]triazolo[4,5-d]pyrimidin-3-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1028	
	N-{3-[2-Fluoro-4'-(4-hydroxymethyl-[1,2,3]triazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1029	
	N-(3-{2-Fluoro-4'-[4-(2-hydroxy-ethyl)-piperazin-1-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

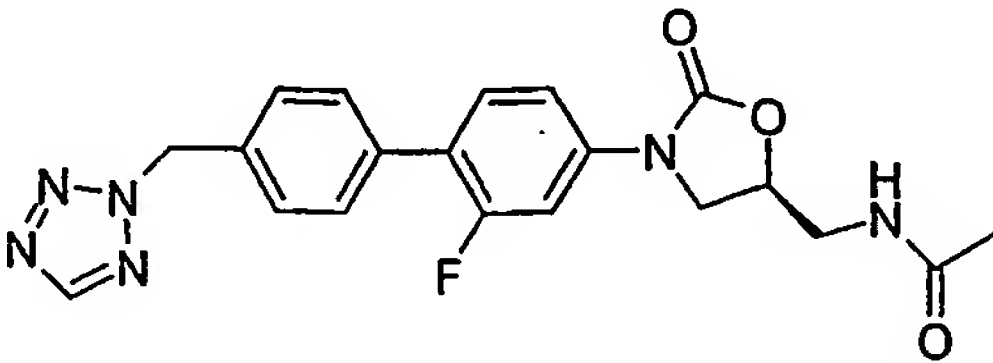
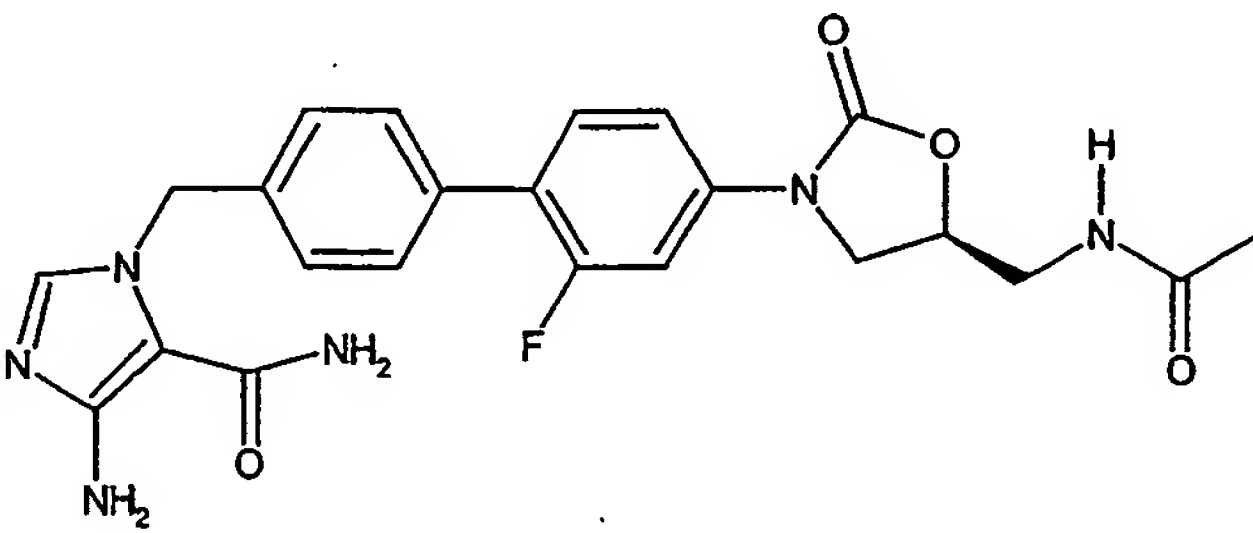
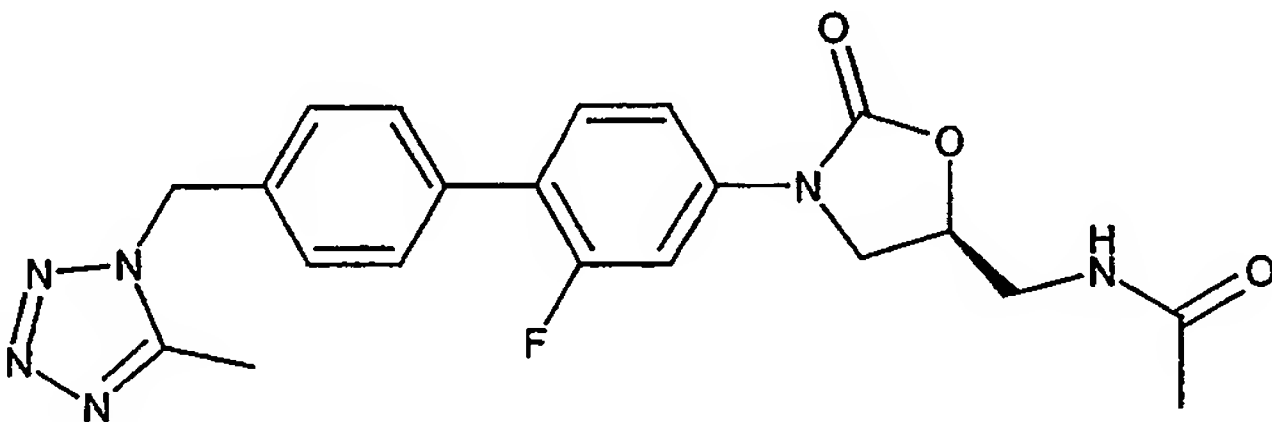
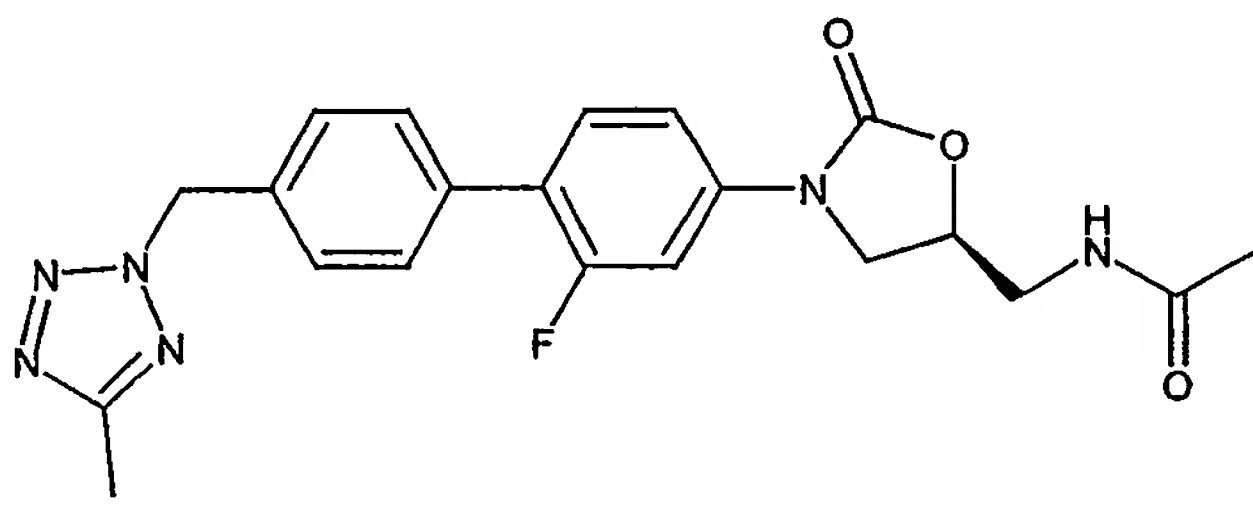
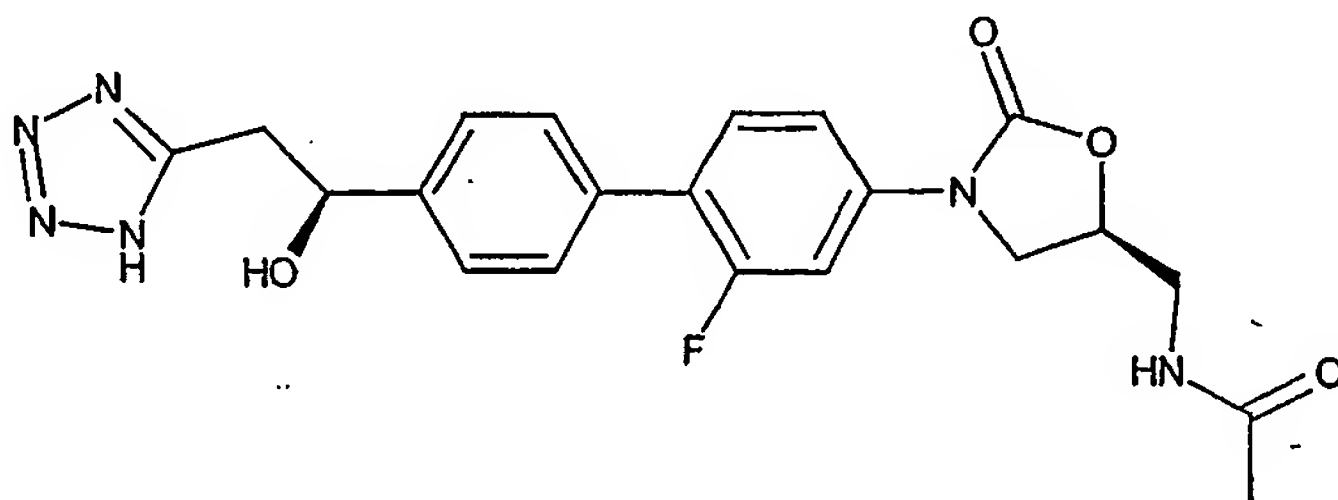
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	N-(3-{2-Fluoro-4'-[4-(2-hydroxy-ethyl)-piperidin-1-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1031	
	N-{3-[4'-(R)-(1-Amino-2-imidazol-1-yl-ethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1032	
	5-(S)-Aminomethyl-3-(2-fluoro-4'-tetrazol-1-ylmethyl-biphenyl-4-yl)-oxazolidin-2-one
1033	
	2-Chloro-N-[3-(2-fluoro-4'-tetrazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1034	
	2,2-Dichloro-N-[3-(2-fluoro-4'-tetrazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

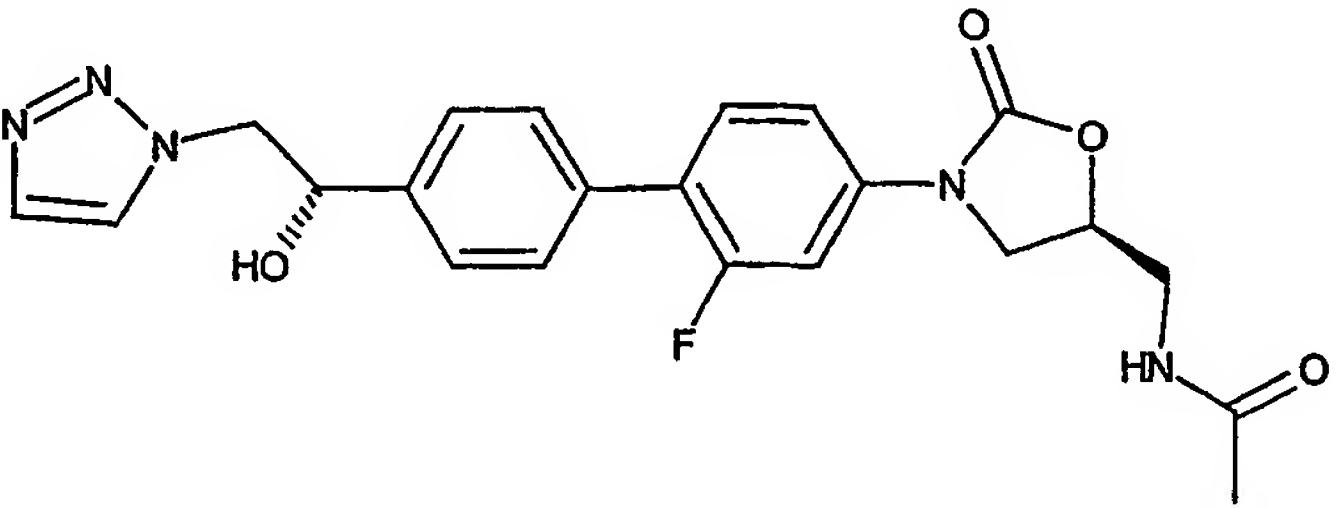
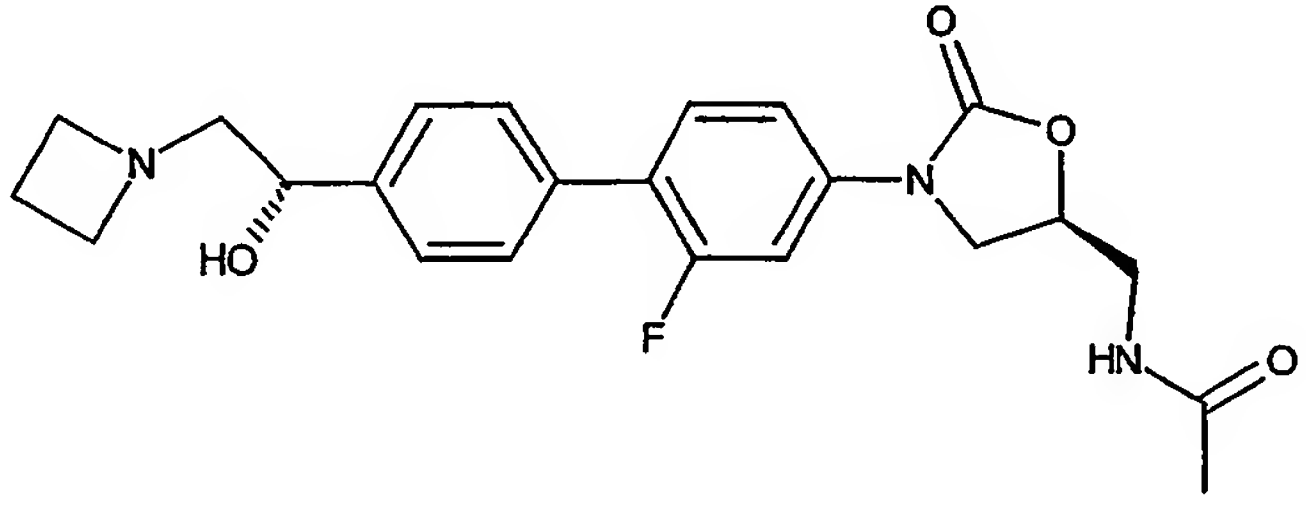
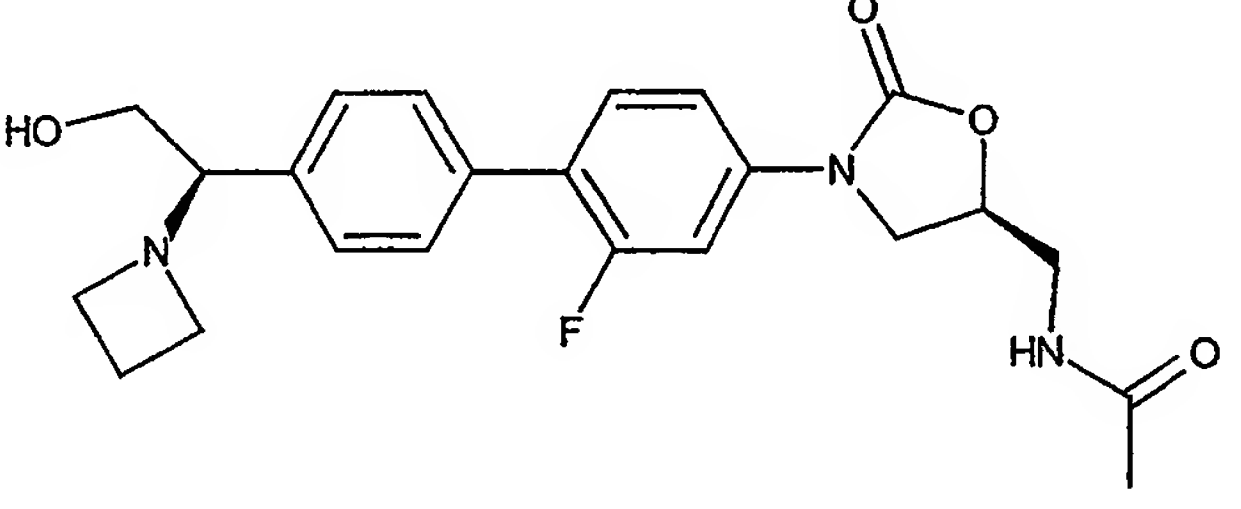
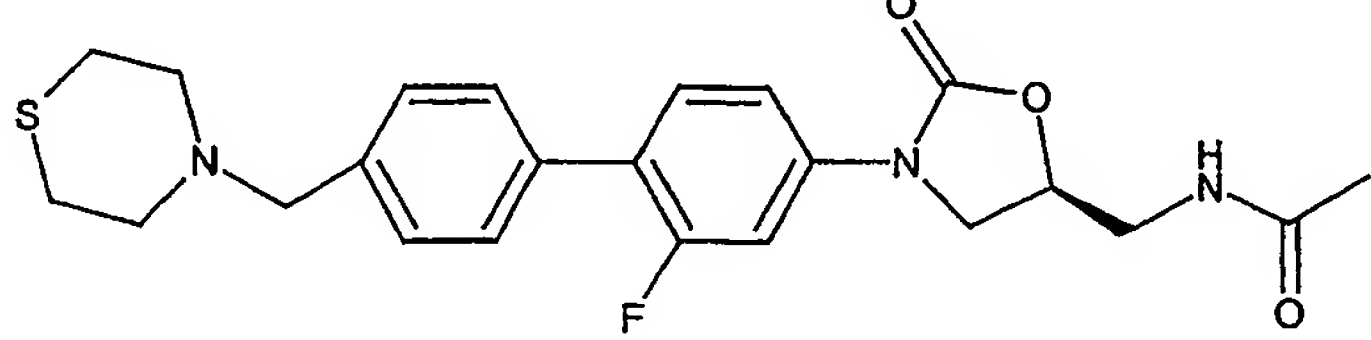
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1036	
	N-{3-[3-Fluoro-4-(6-[1,2,3]triazol-1-ylmethyl-pyridin-3-yl)-phenyl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1037	
	N-[3-(2-Fluoro-4'-(1,2,4)triazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1038	
	N-(3-{4'-[4-(3-Chloro-5-trifluoromethyl-pyridin-2-yl)-piperazin-1-ylmethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1039	

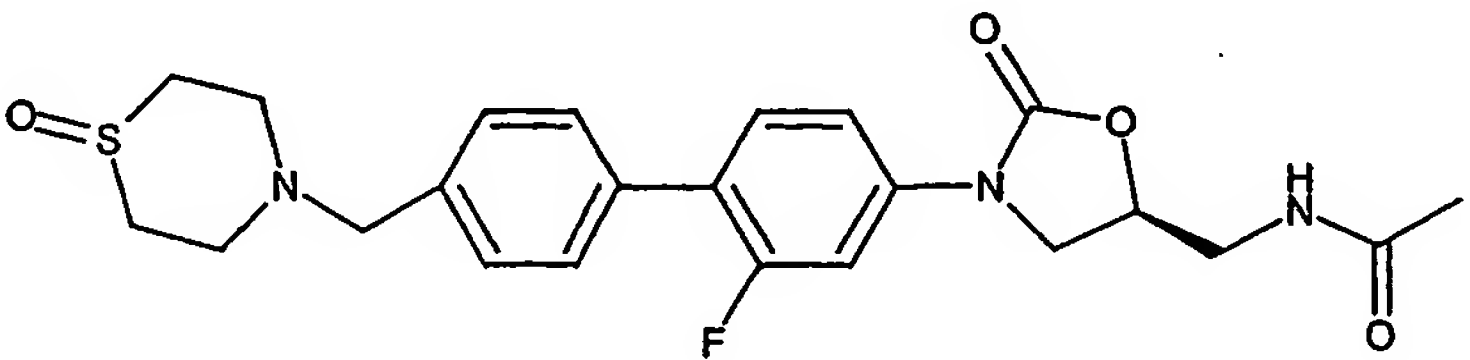
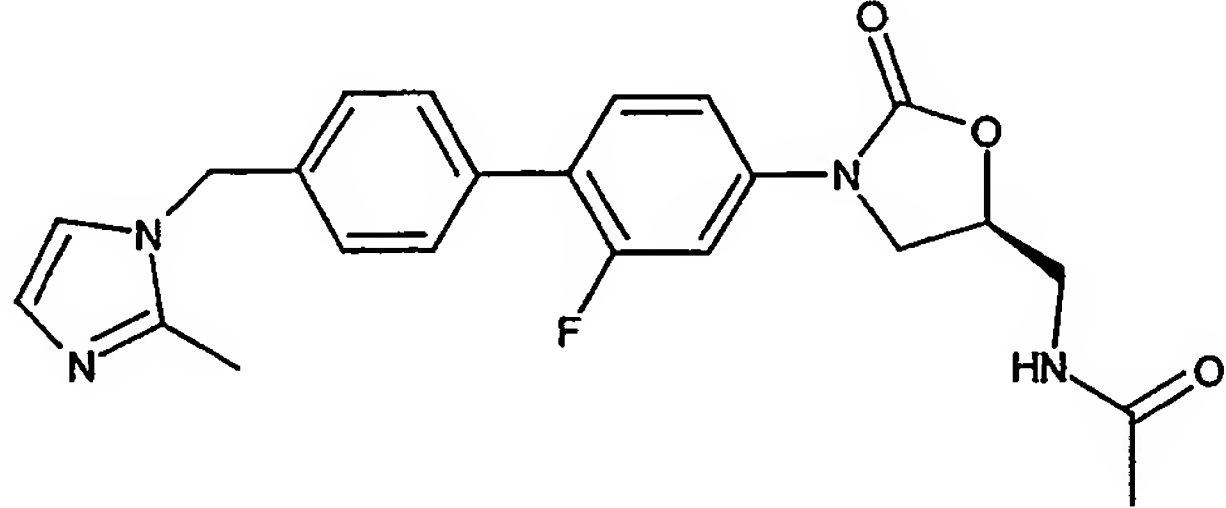
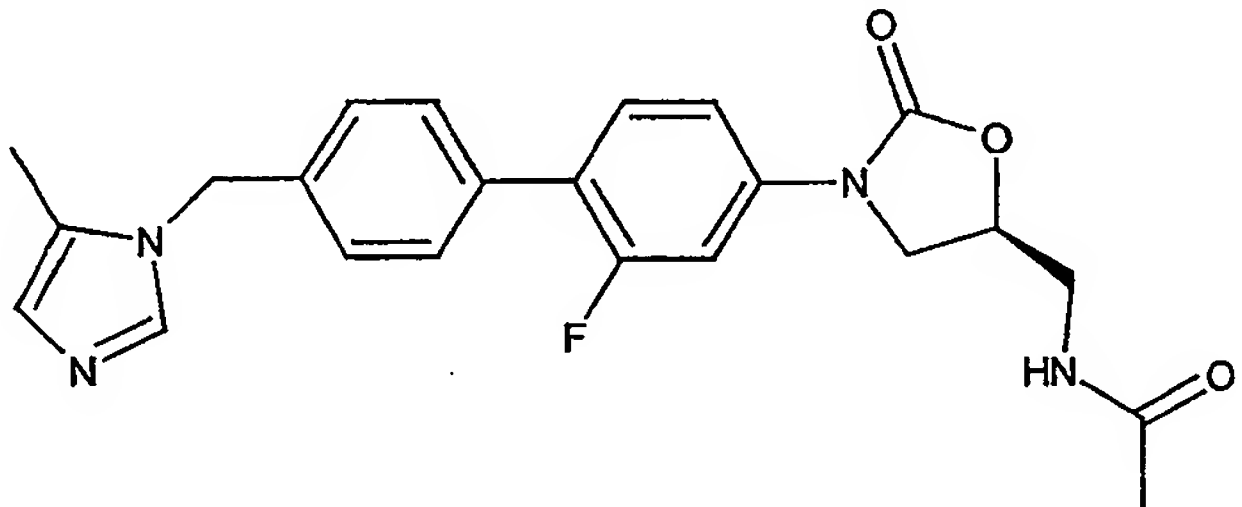
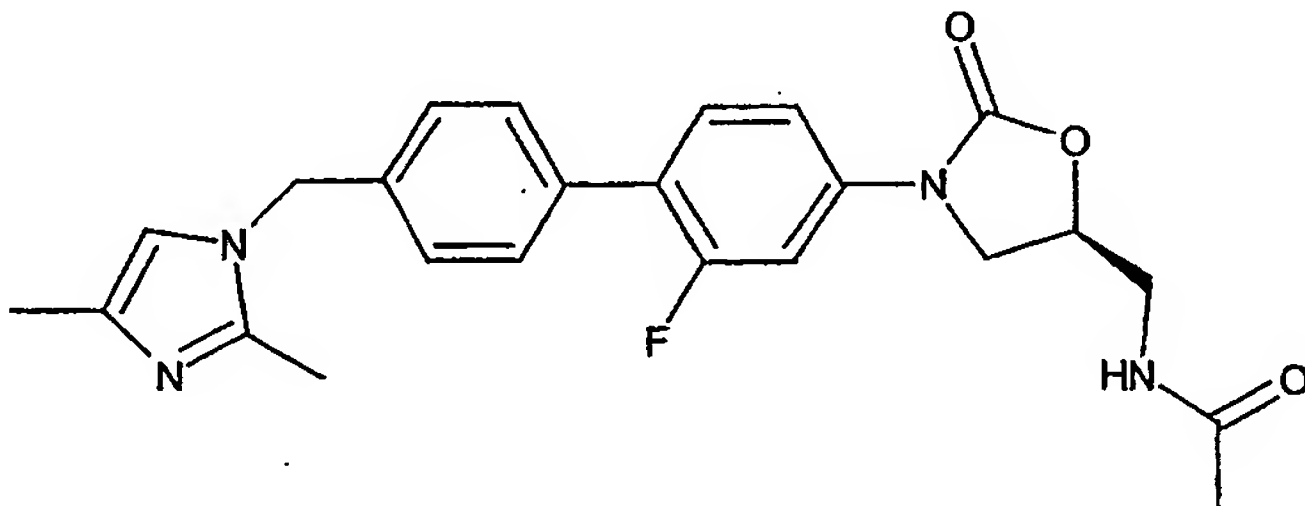
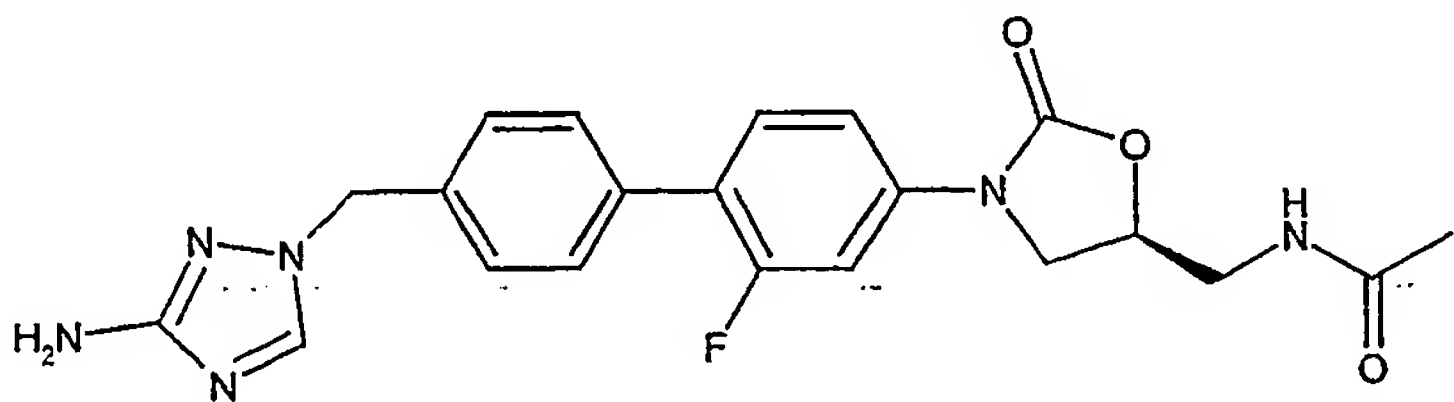
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1040	
	N-(3-{4'-[Amino-(2H-tetrazol-5-(R/S)-yl)-methyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1041	
	[{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-yl}-(2-methyl-2H-tetrazol-5-(R/S)-yl)-methyl]-carbamic acid benzyl ester
1042	
	N-(3-{4'-[Amino-(2-methyl-2H-tetrazol-5-(R/S)-yl)-methyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1043	
	N-[3-(2-Fluoro-4'-pyrazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1044	
	N-(3-{2-Fluoro-4'-[2-(4-formyl-piperazin-1-yl)-1-(S)-hydroxy-ethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

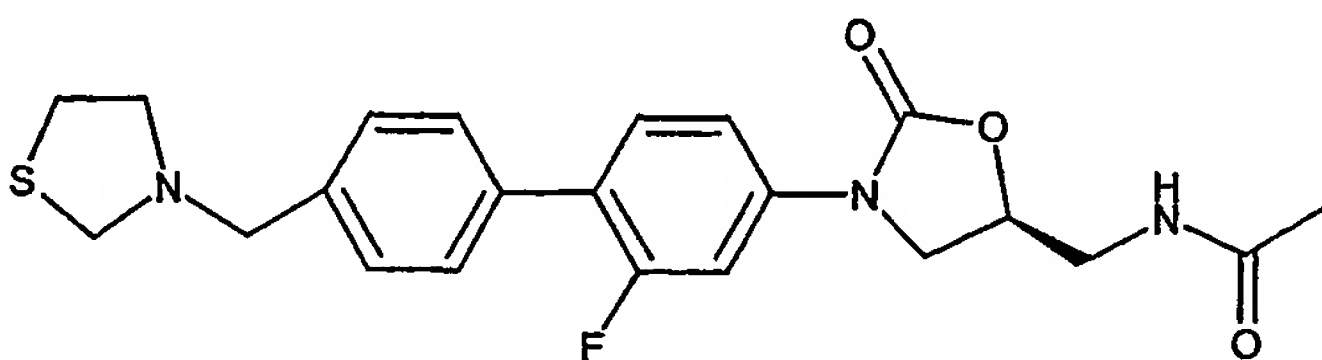
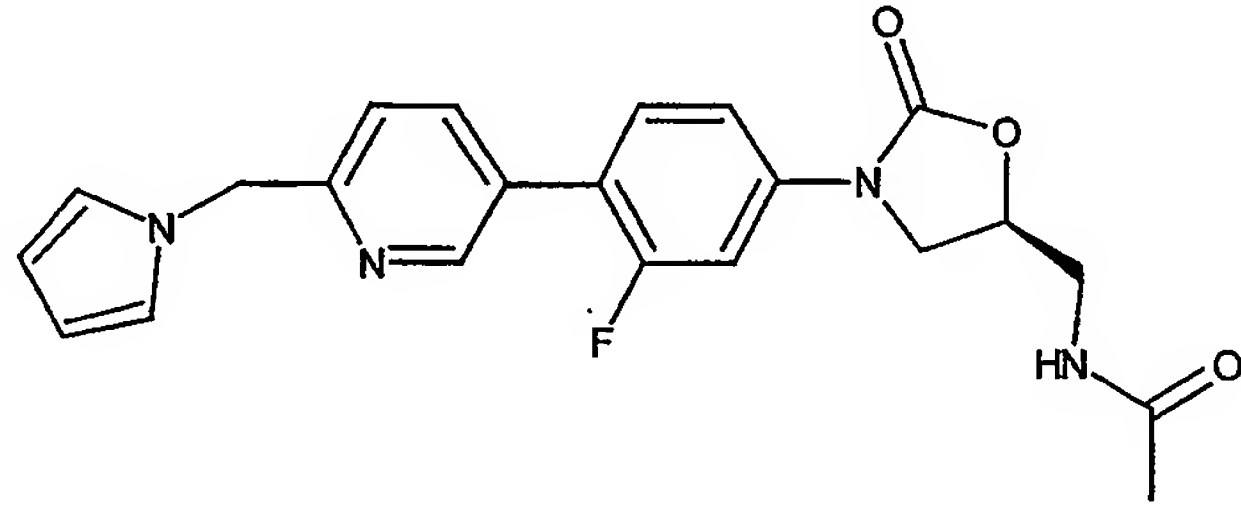
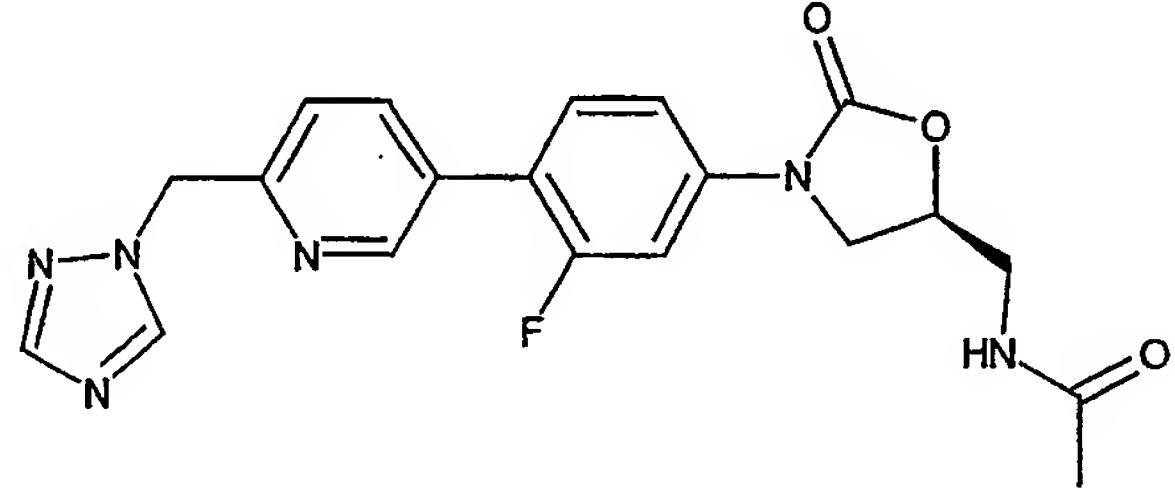
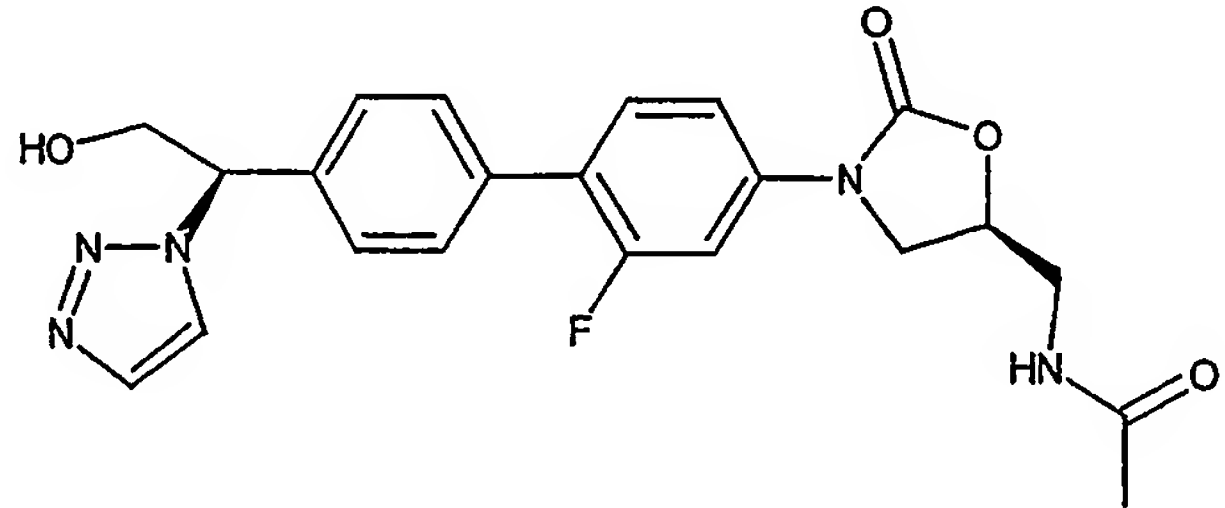
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	N-(3-{2-Fluoro-4'-[1-(R)-(4-formyl-piperazin-1-yl)-2-hydroxy-ethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1046	
	N-{3-[2-Fluoro-4'-(1-(S)-hydroxy-2-imidazol-1-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1047	
	N-[3-(2-Fluoro-4'-tetrazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1048	
	N-[3-(2,6-Difluoro-4'-tetrazol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1049	
	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-1H-pyrazole-4-carboxylic acid ethyl ester
1050	

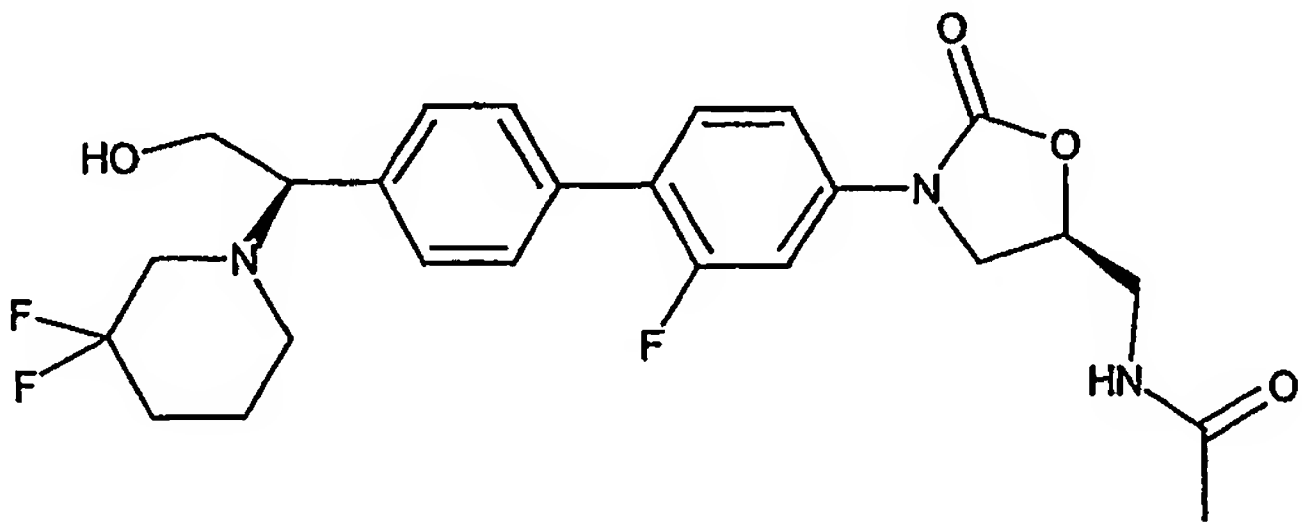
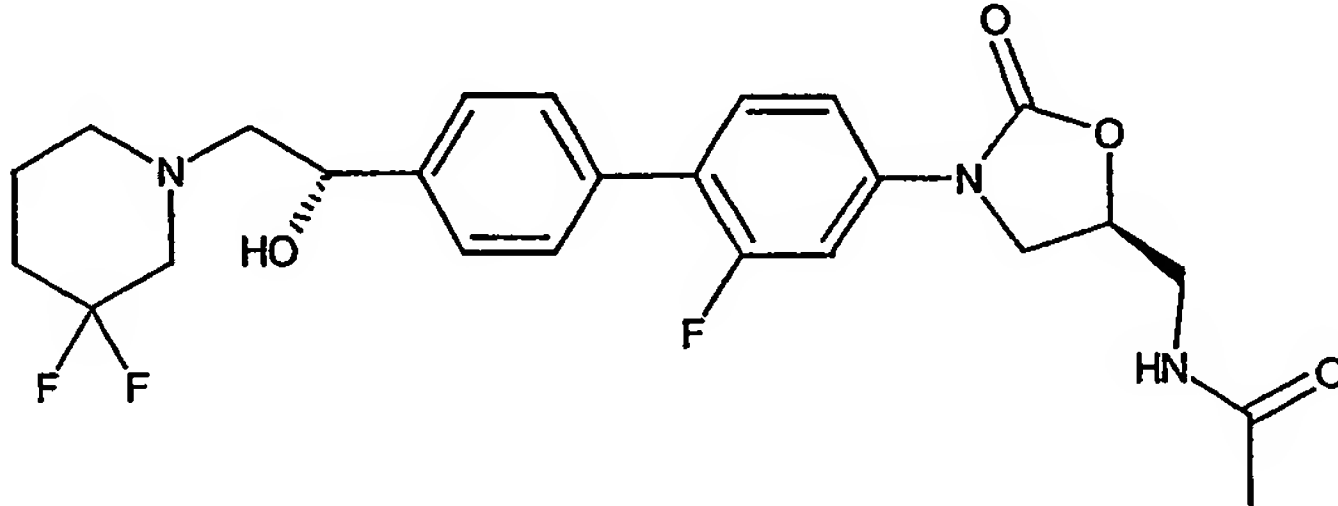
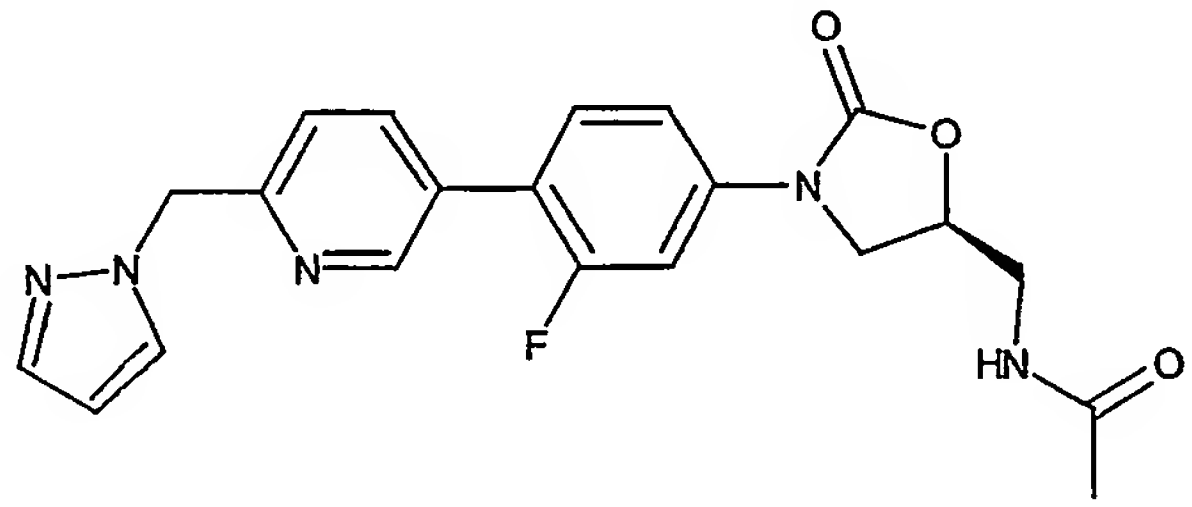
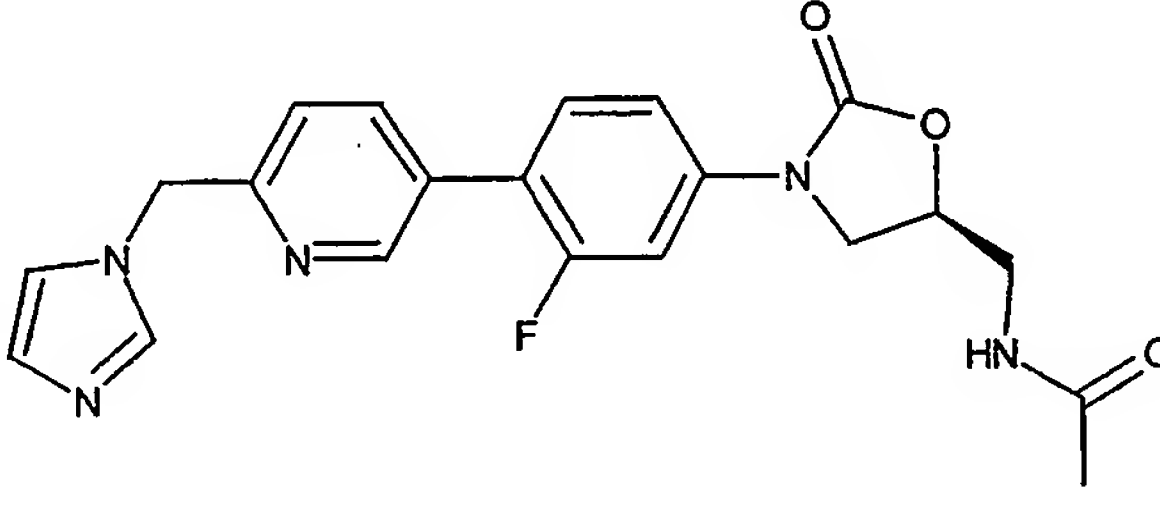
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1051	
	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-1H-pyrazole-4-carboxylic acid
1052	
	N-{3-[2-Fluoro-4'-(4-methyl-pyrazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1053	
	N-{3-[4'-(3-Amino-pyrazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1054	
	N-[3-(2-Fluoro-4'-pyrrol-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1055	
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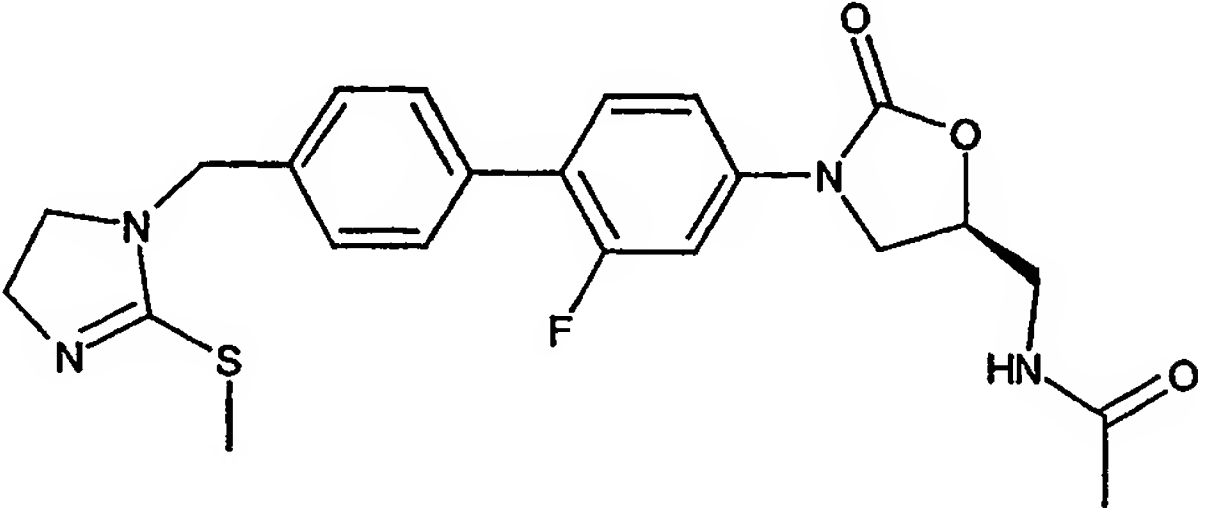
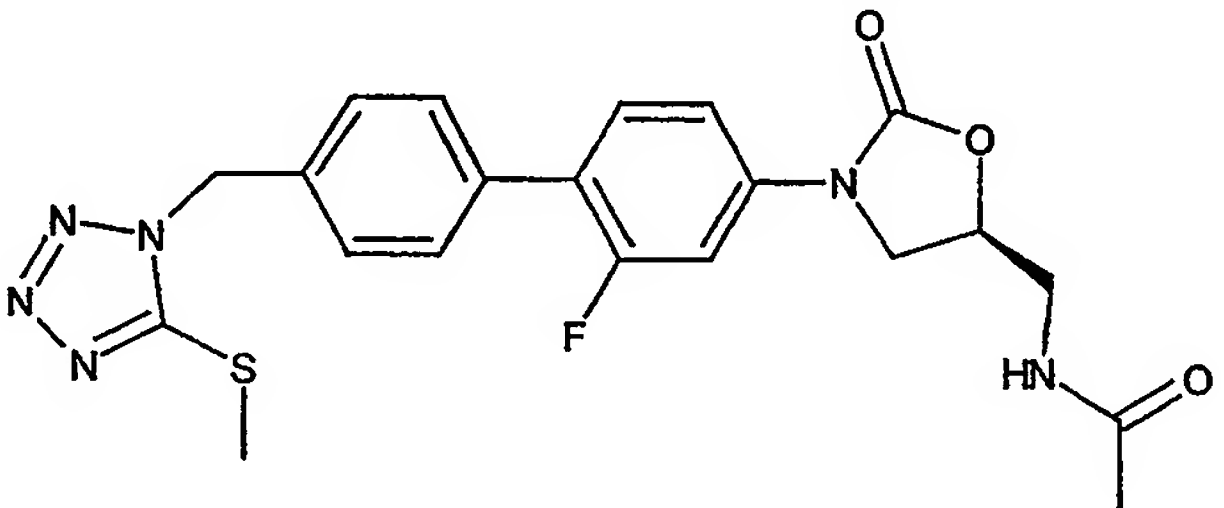
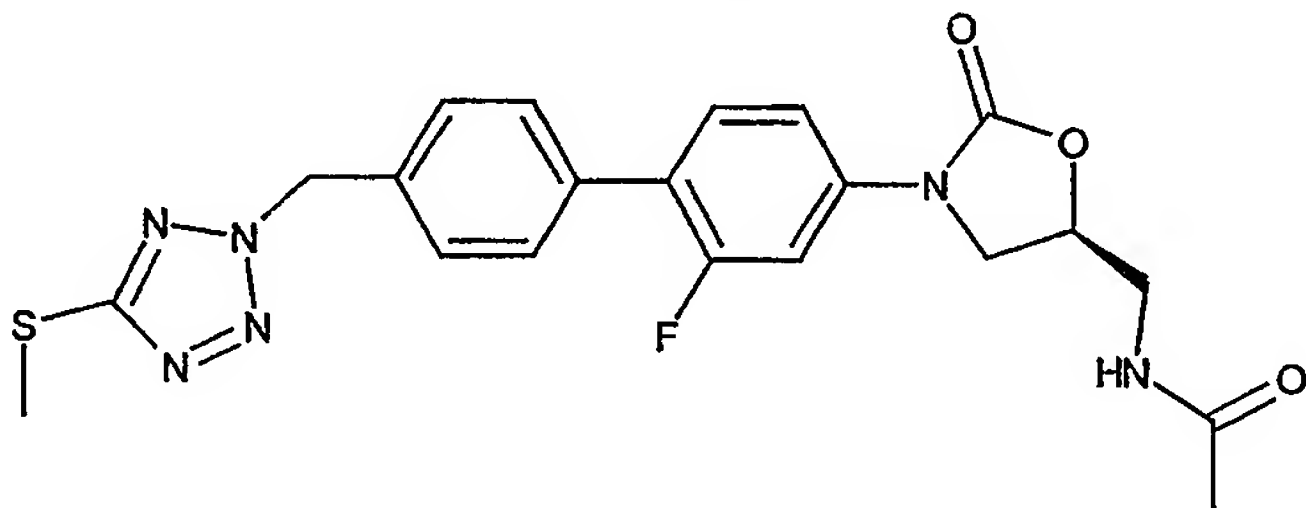
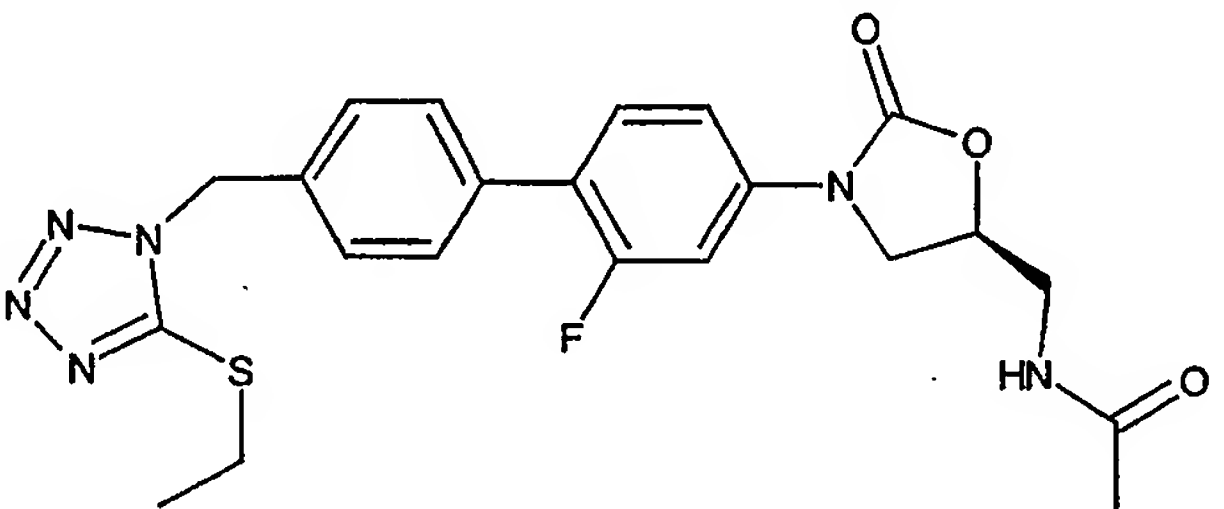
1056	
	N-[3-(2-Fluoro-4'-tetrazol-2-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1057	
	3-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-5-amino-3H-imidazole-4-carboxylic acid amide
1058	
	N-{3-[2-Fluoro-4'-(5-methyl-tetrazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1059	
	N-{3-[2-Fluoro-4'-(5-methyl-tetrazol-2-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1060	

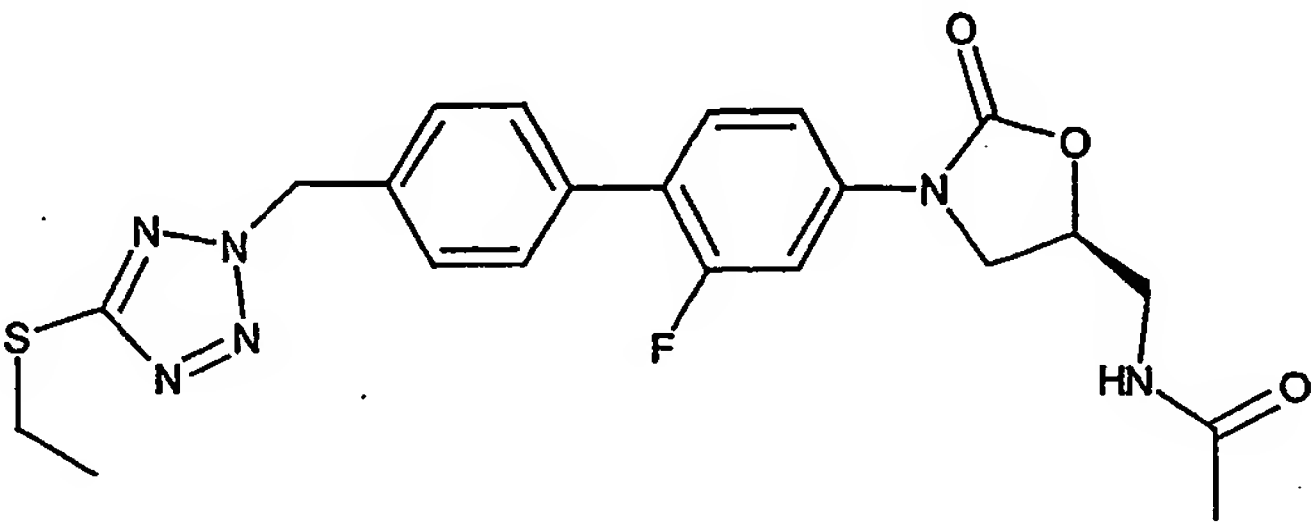
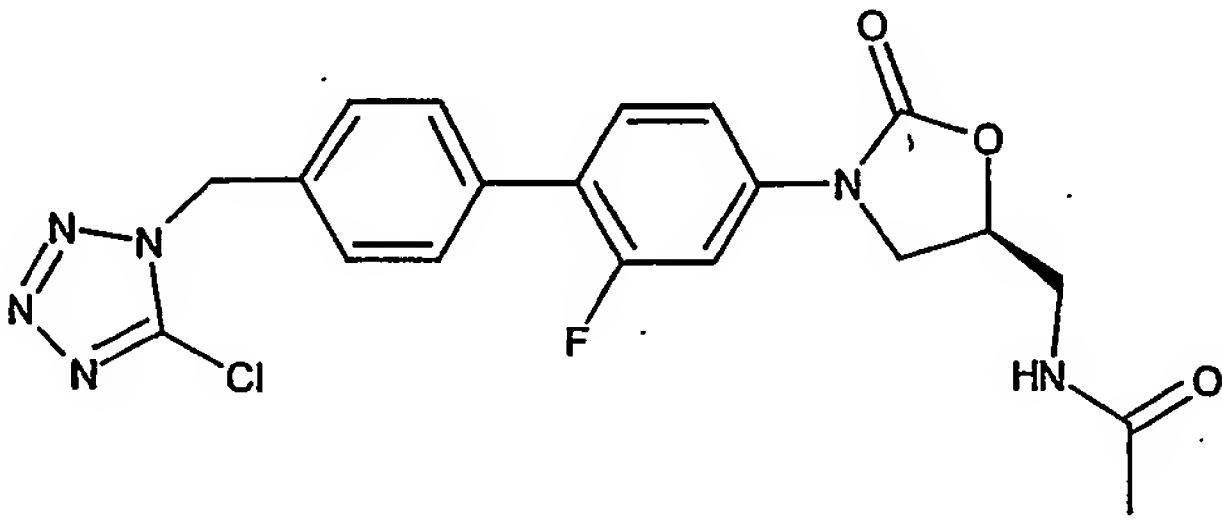
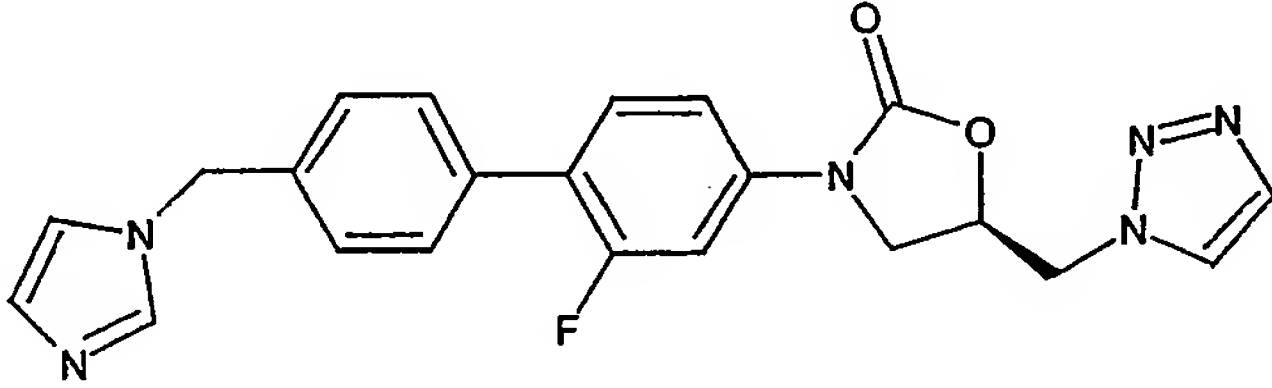
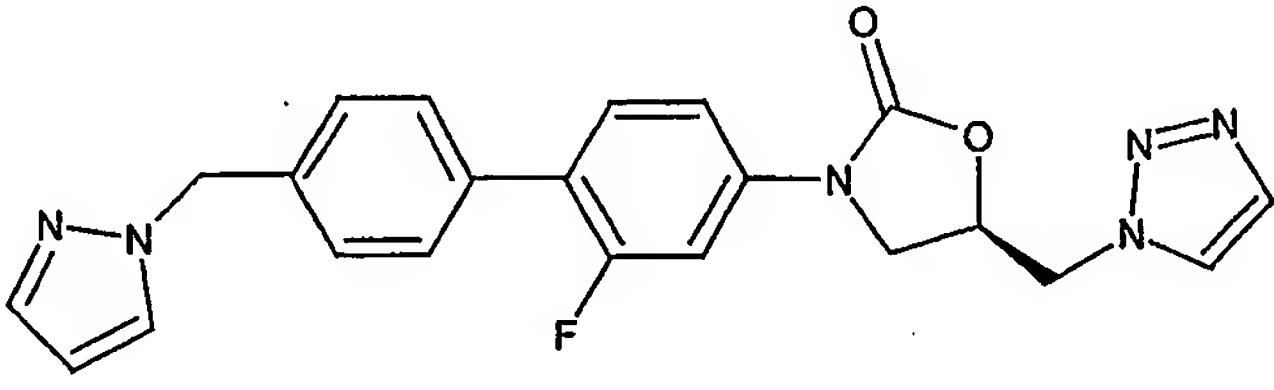
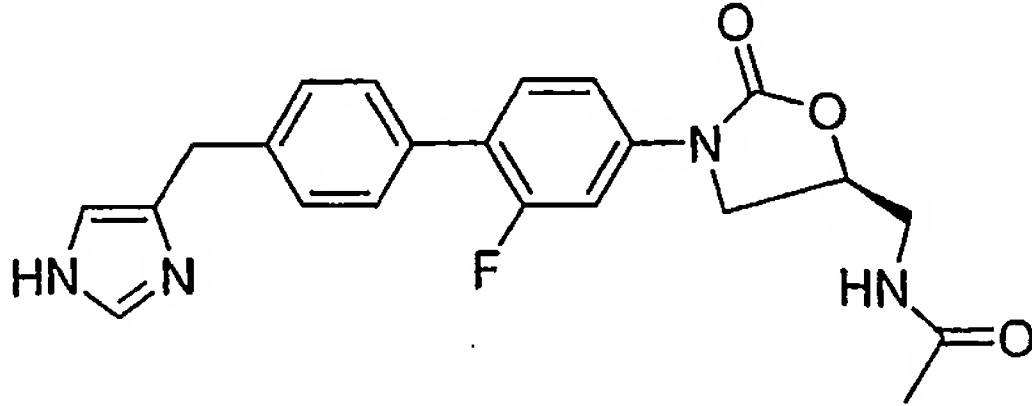
	N-(3-{2-Fluoro-4'-[1-(R)-hydroxy-2-(1H-tetrazol-5-yl)-ethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1061	
	N-{3-[2-Fluoro-4'-(1-(S)-hydroxy-2-[1,2,3]triazol-1-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1062	
	N-{3-[4'-(2-Azetidin-1-yl-1-(S)-hydroxy-ethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1063	
	N-{3-[4'-(1-(R)-Azetidin-1-yl-2-hydroxy-ethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1064	
	N-[3-(2-Fluoro-4'-thiomorpholin-4-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

1065	
	N-{3-[2-Fluoro-4'-(1-oxo-1λ4*-thiomorpholin-4-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1066	
	N-{3-[2-Fluoro-4'-(2-methyl-imidazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1067	
	N-{3-[2-Fluoro-4'-(5-methyl-imidazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1068	
	N-{3-[4'-(2,4-Dimethyl-imidazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1069	

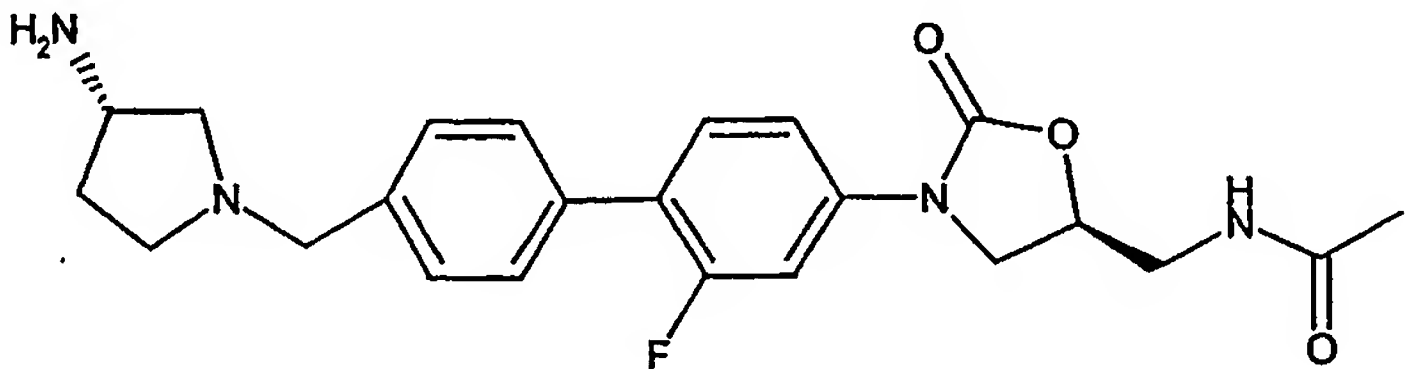
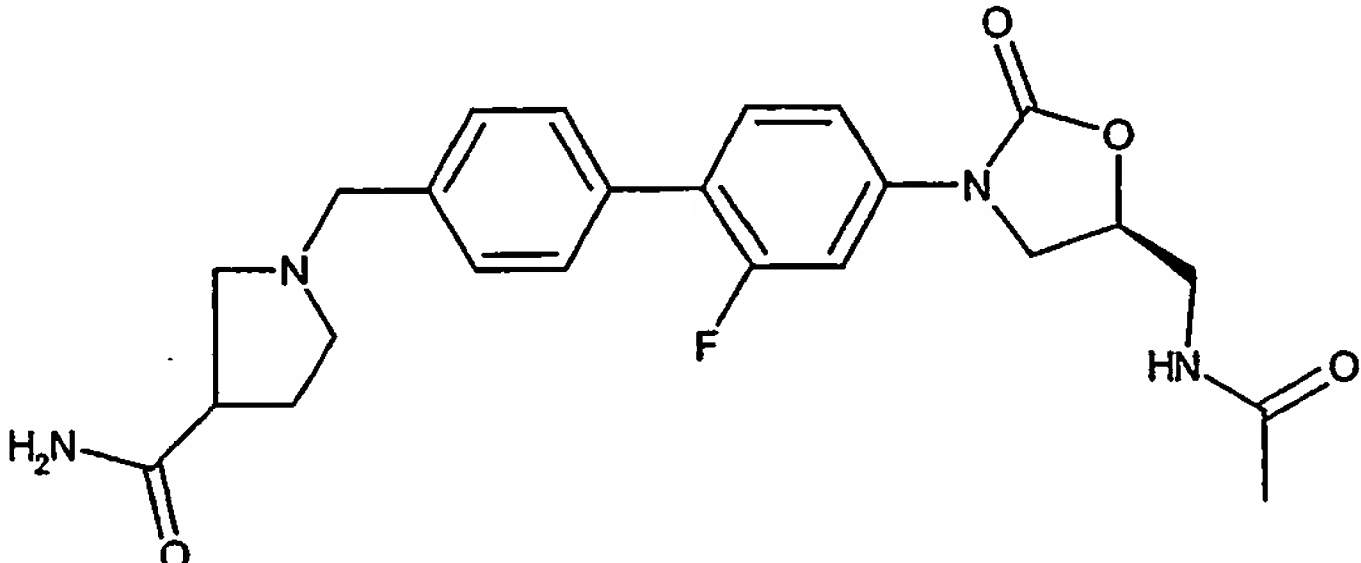
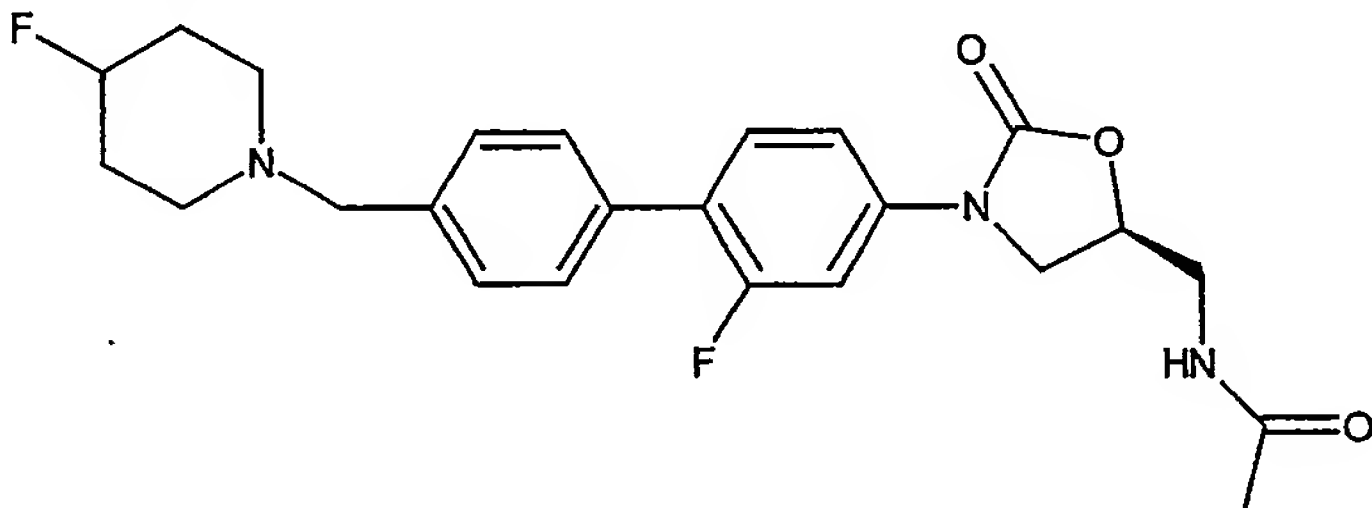
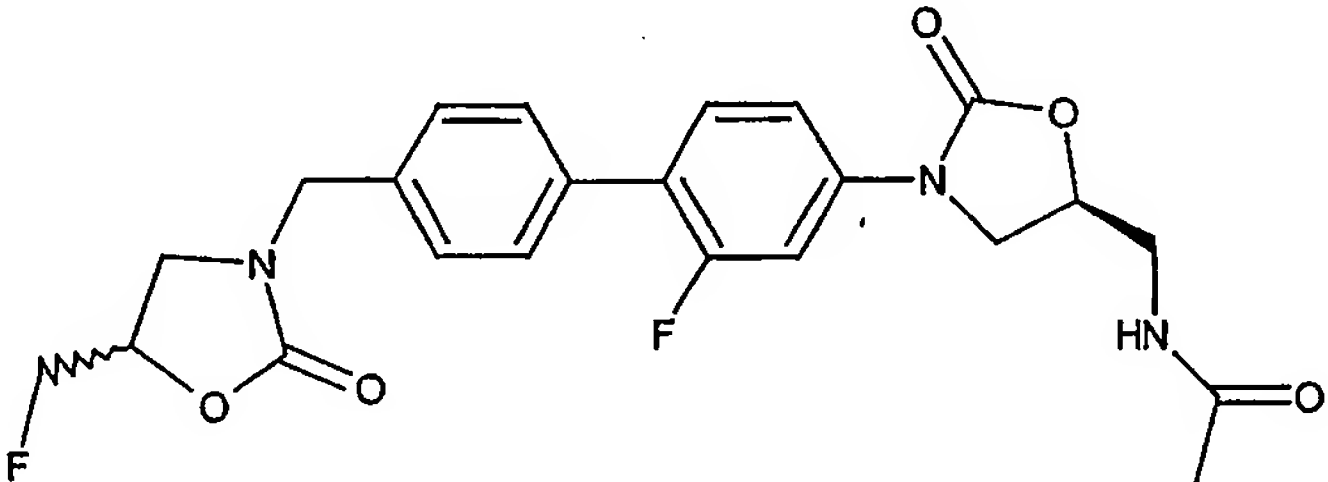
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1070	
	N-[3-(2-Fluoro-4'-thiazolidin-3-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1071	
	N-{3-[3-Fluoro-4-(6-pyrrol-1-ylmethyl-pyridin-3-yl)-phenyl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1072	
	N-{3-[3-Fluoro-4-(6-[1,2,4]triazol-1-ylmethyl-pyridin-3-yl)-phenyl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1073	
	N-{3-[2-Fluoro-4'-(2-hydroxy-1-(R)-[1,2,3]triazol-1-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

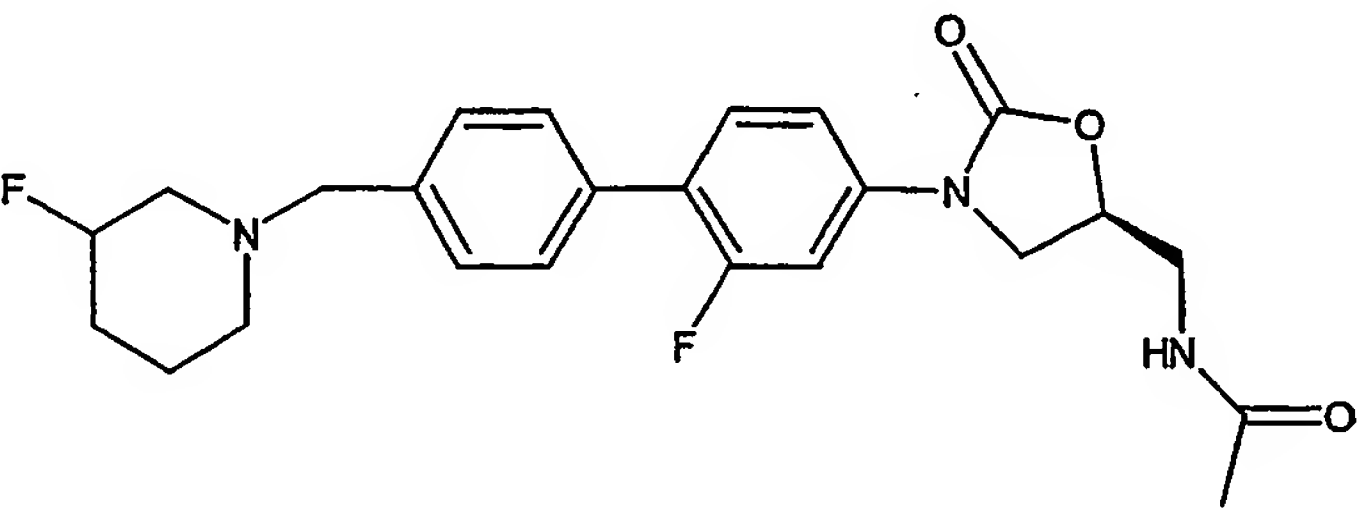
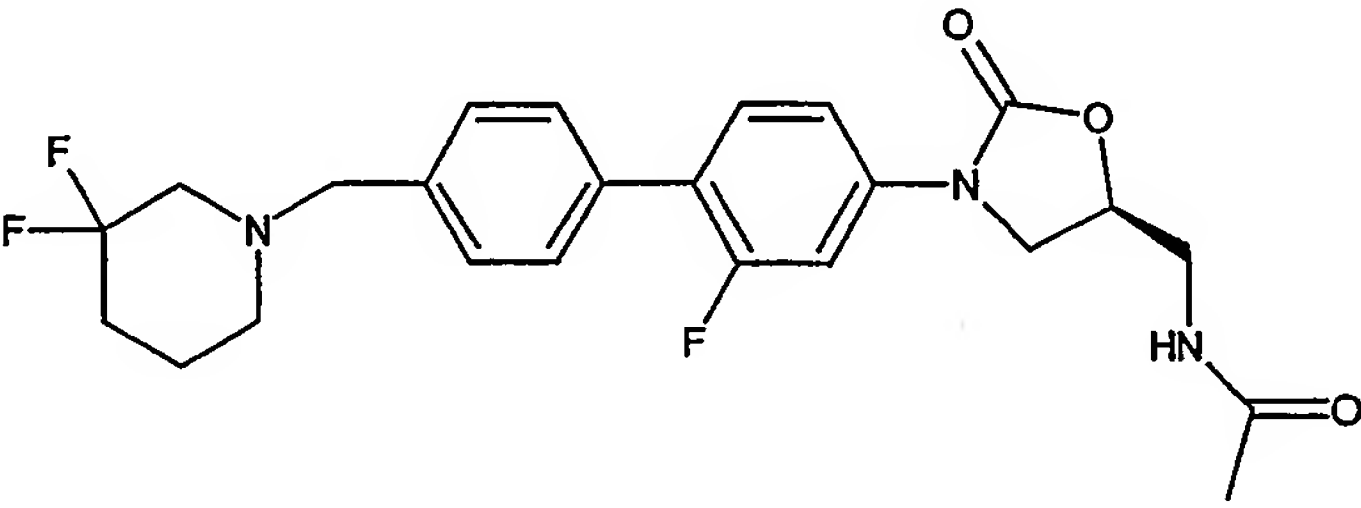
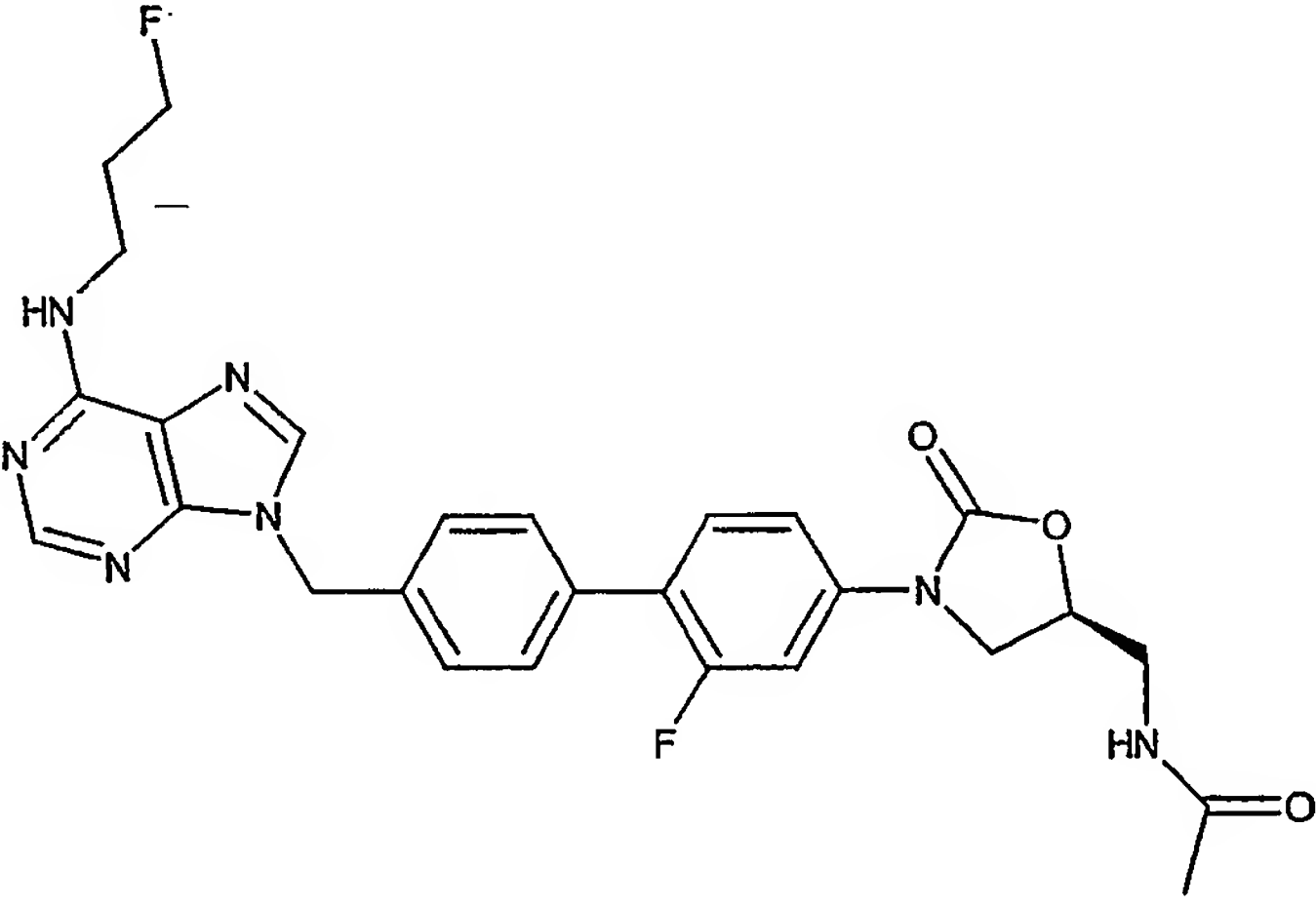
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	N-(3-{4'-[1-(R)-(3,3-Difluoro-piperidin-1-yl)-2-hydroxy-ethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1075	
	N-(3-{4'-[2-(3,3-Difluoro-piperidin-1-yl)-1-(S)-hydroxy-ethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1076	
	N-{3-[3-Fluoro-4-(6-pyrazol-1-ylmethyl-pyridin-3-yl)-phenyl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1077	
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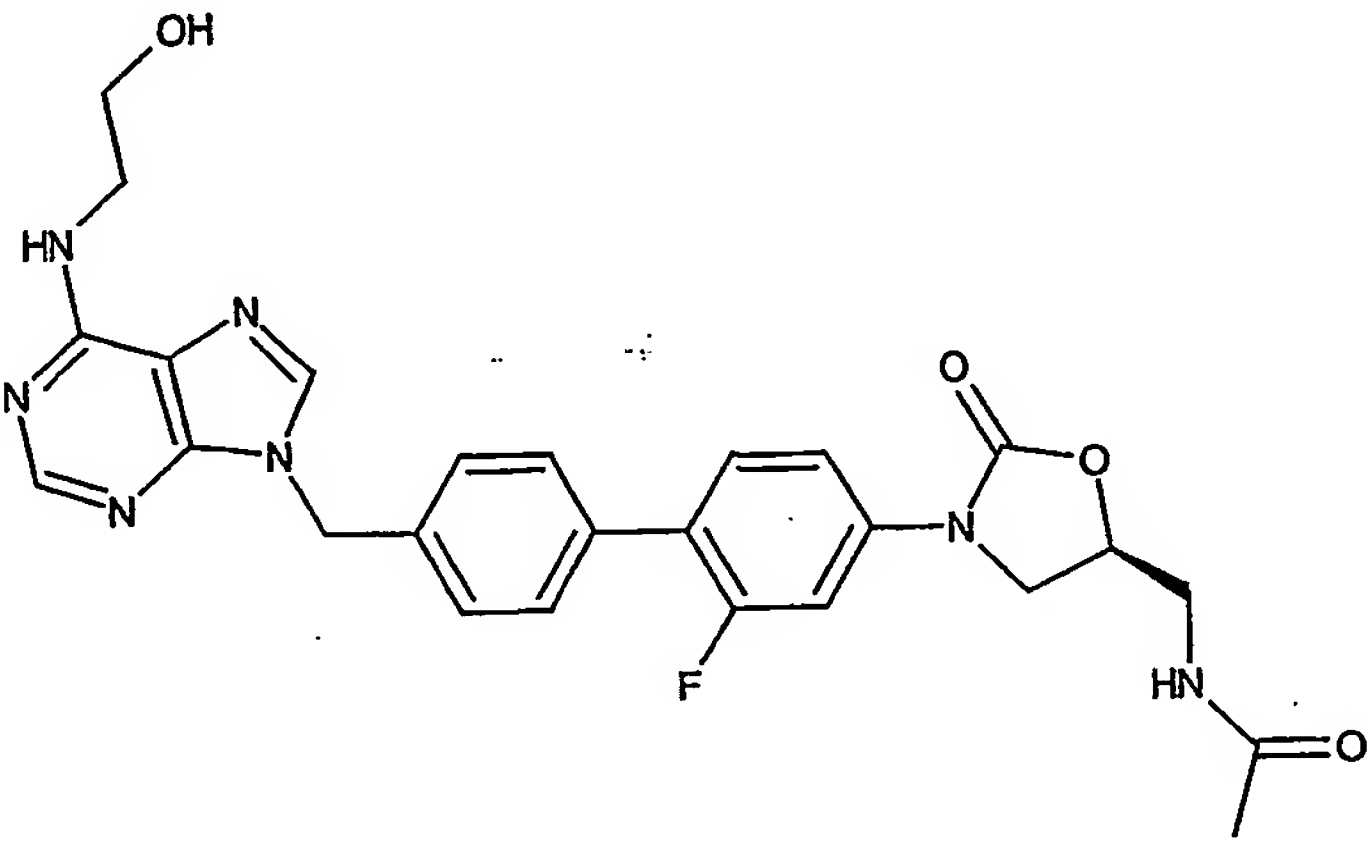
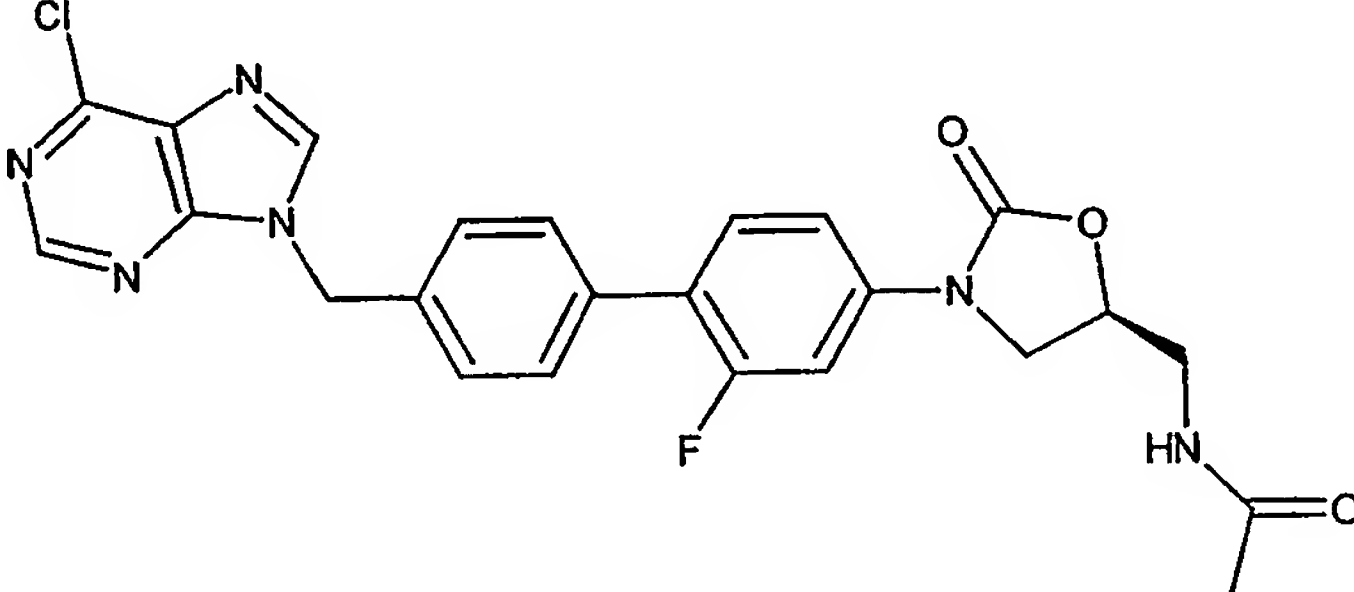
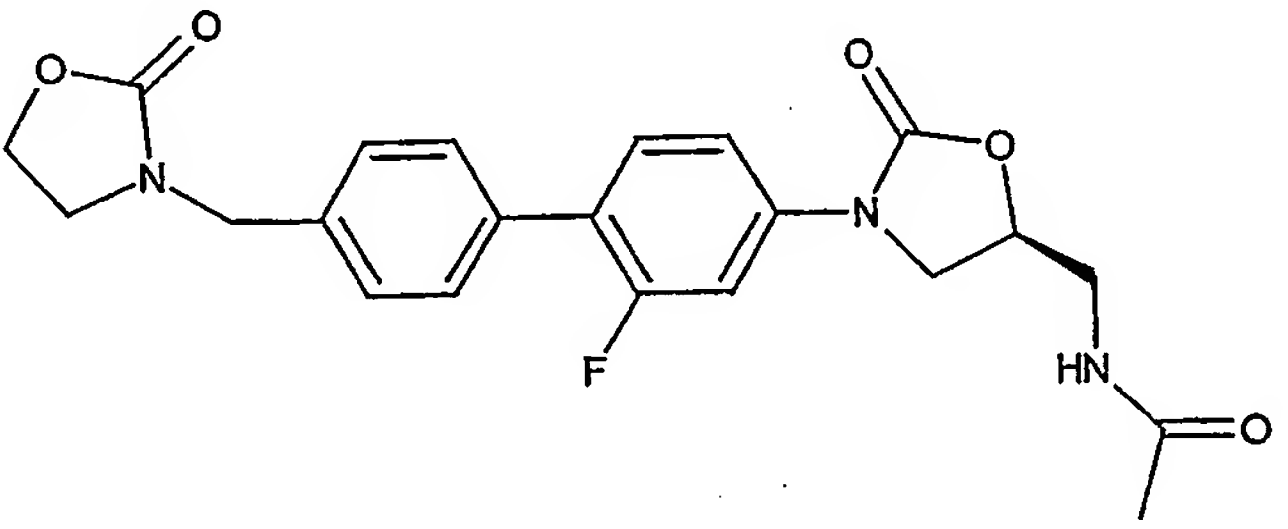
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1079	
	N-{3-[2-Fluoro-4'-(5-methylsulfanyl-tetrazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1080	
	N-{3-[2-Fluoro-4'-(5-methylsulfanyl-tetrazol-2-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1081	
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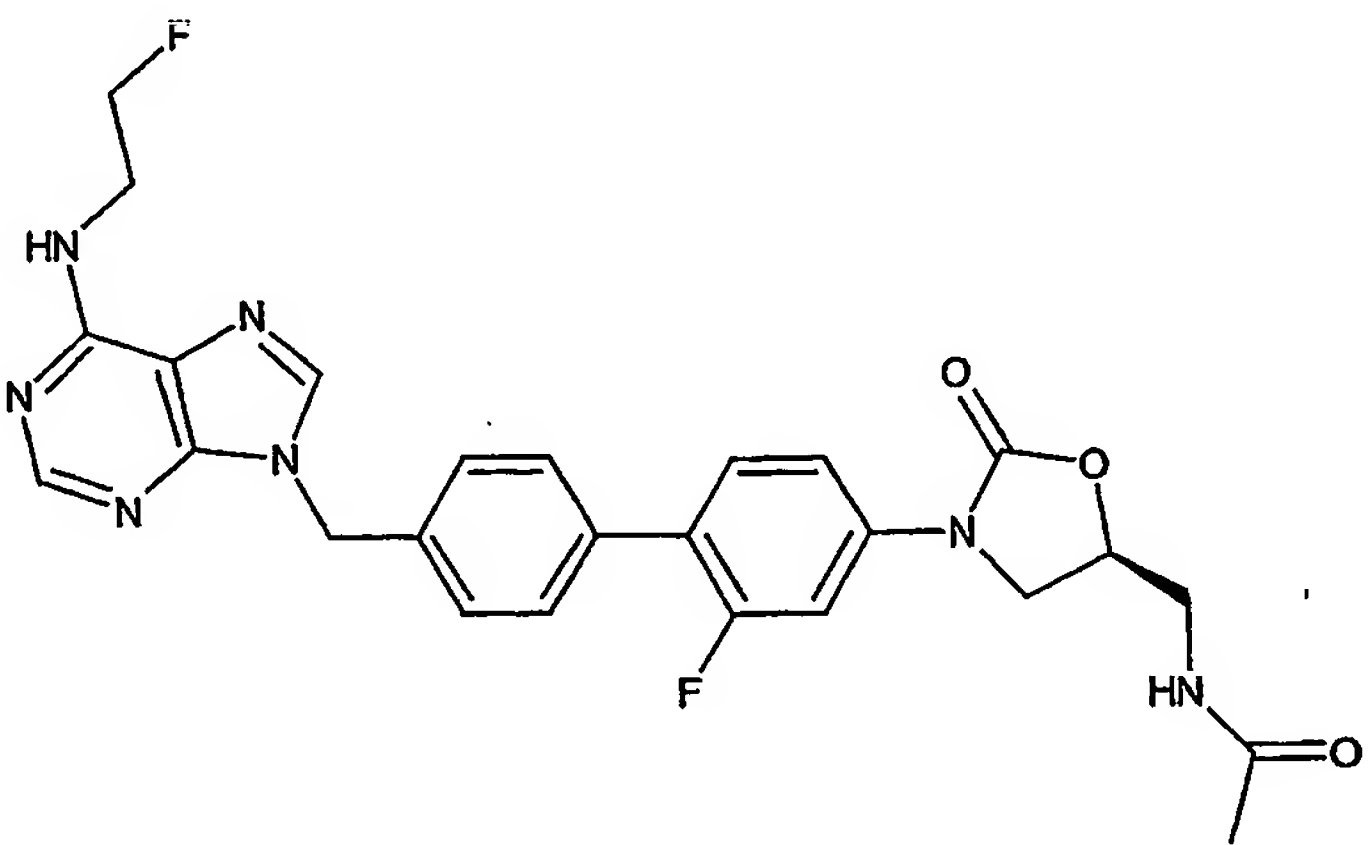
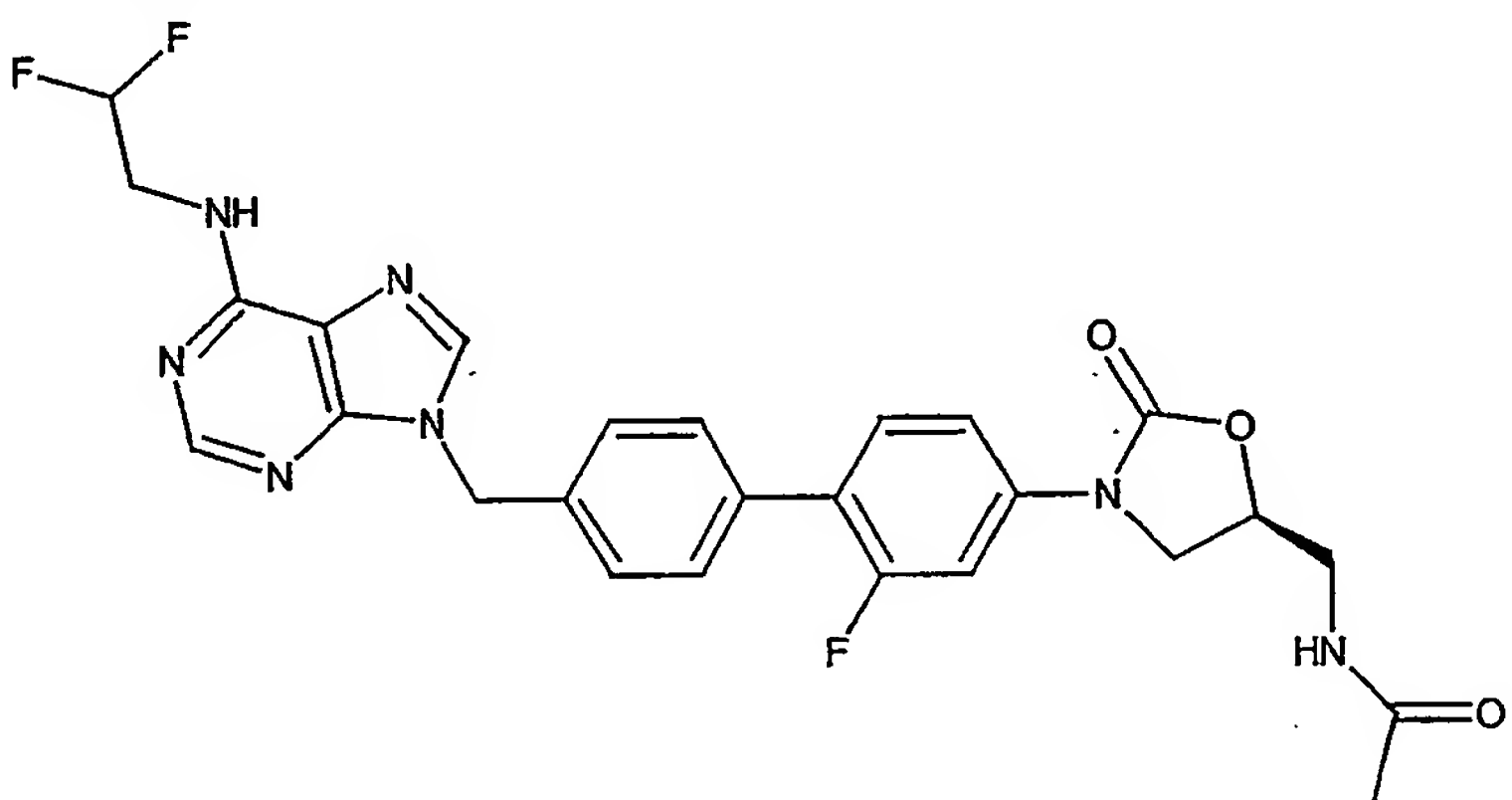
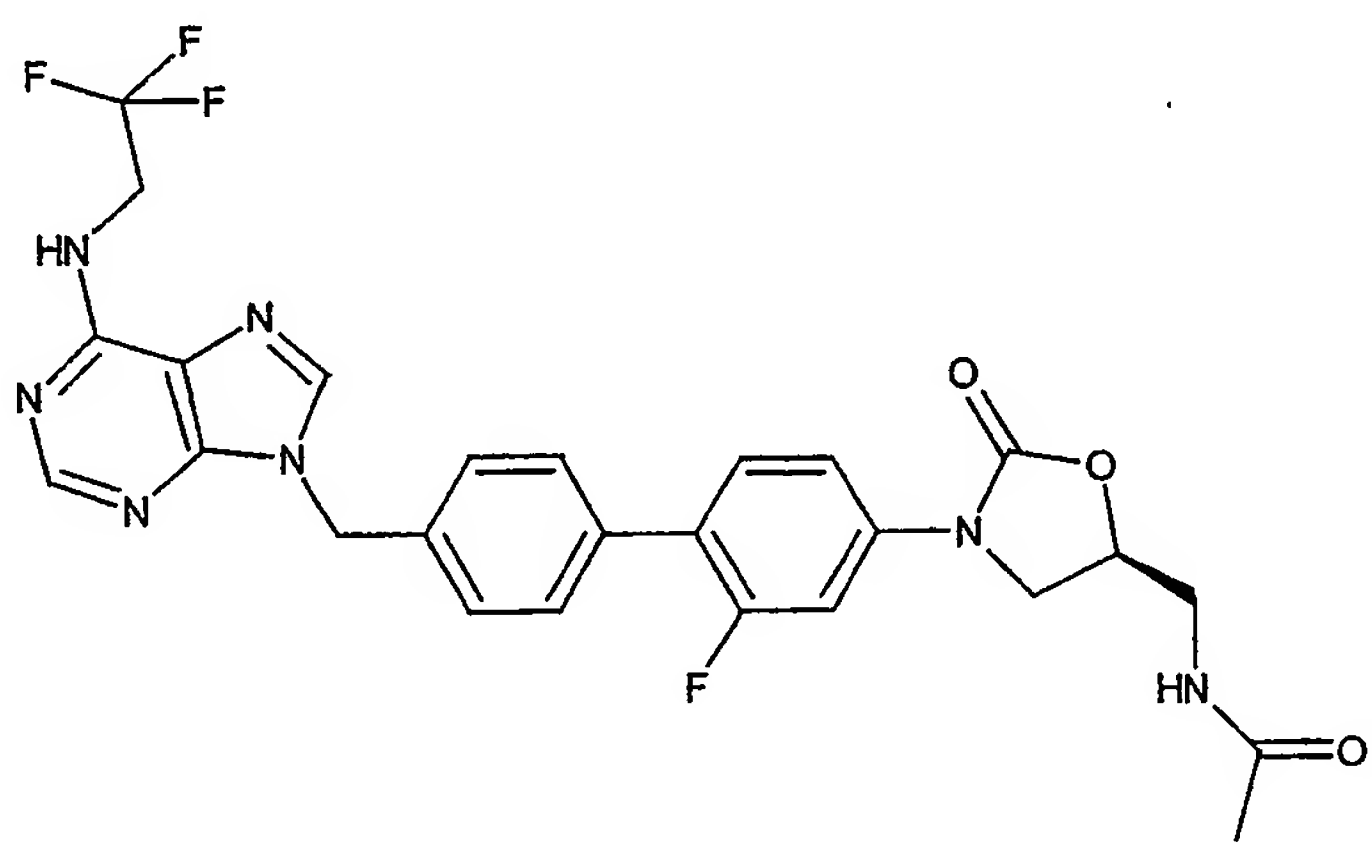
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1083	
	N-{3-[4'-(5-Chloro-tetrazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1084	
	3-(2-Fluoro-4'-imidazol-1-ylmethyl-biphenyl-4-yl)-5-(R)-[1,2,3]triazol-1-ylmethyl-oxazolidin-2-one
1085	
	3-(2-Fluoro-4'-pyrazol-1-ylmethyl-biphenyl-4-yl)-5-(R)-[1,2,3]triazol-1-ylmethyl-oxazolidin-2-one
1086	
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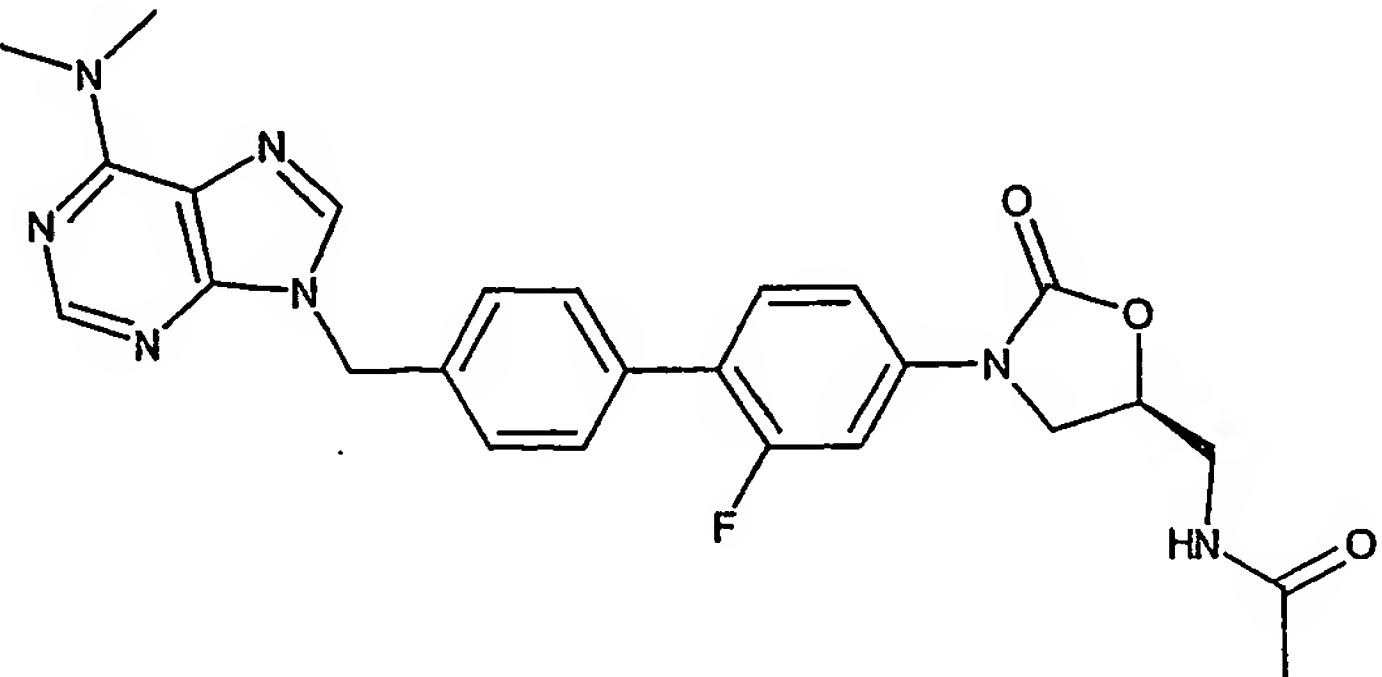
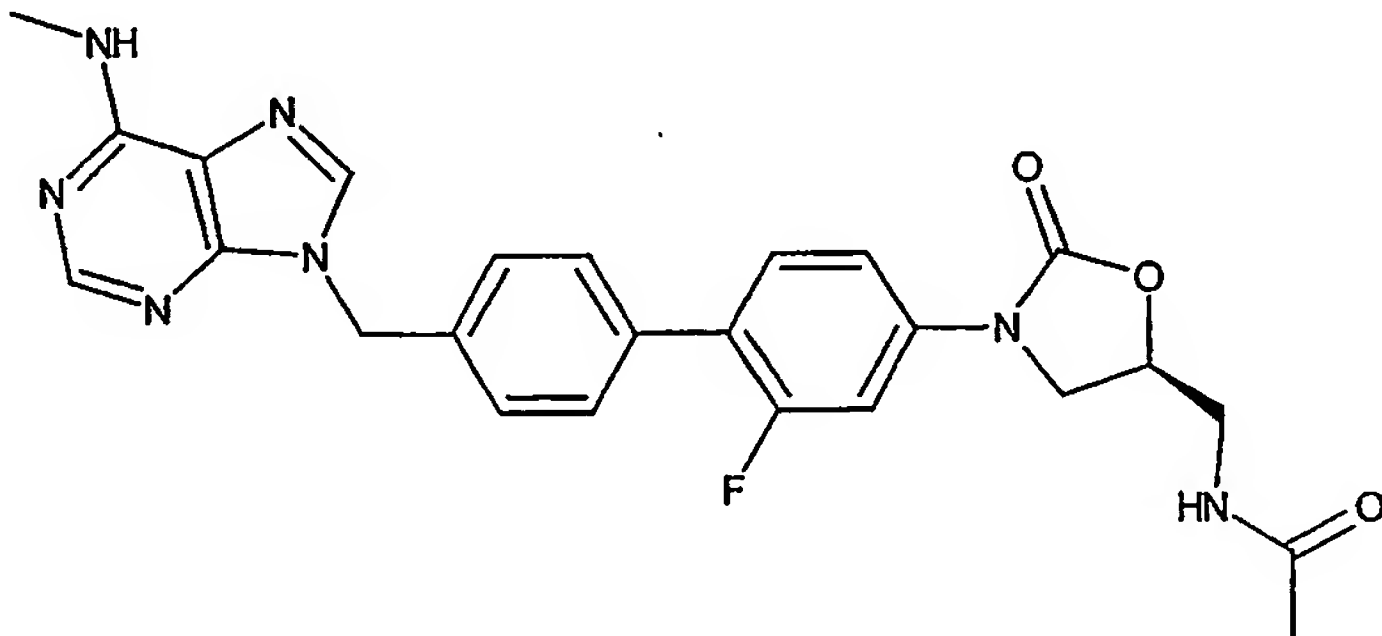
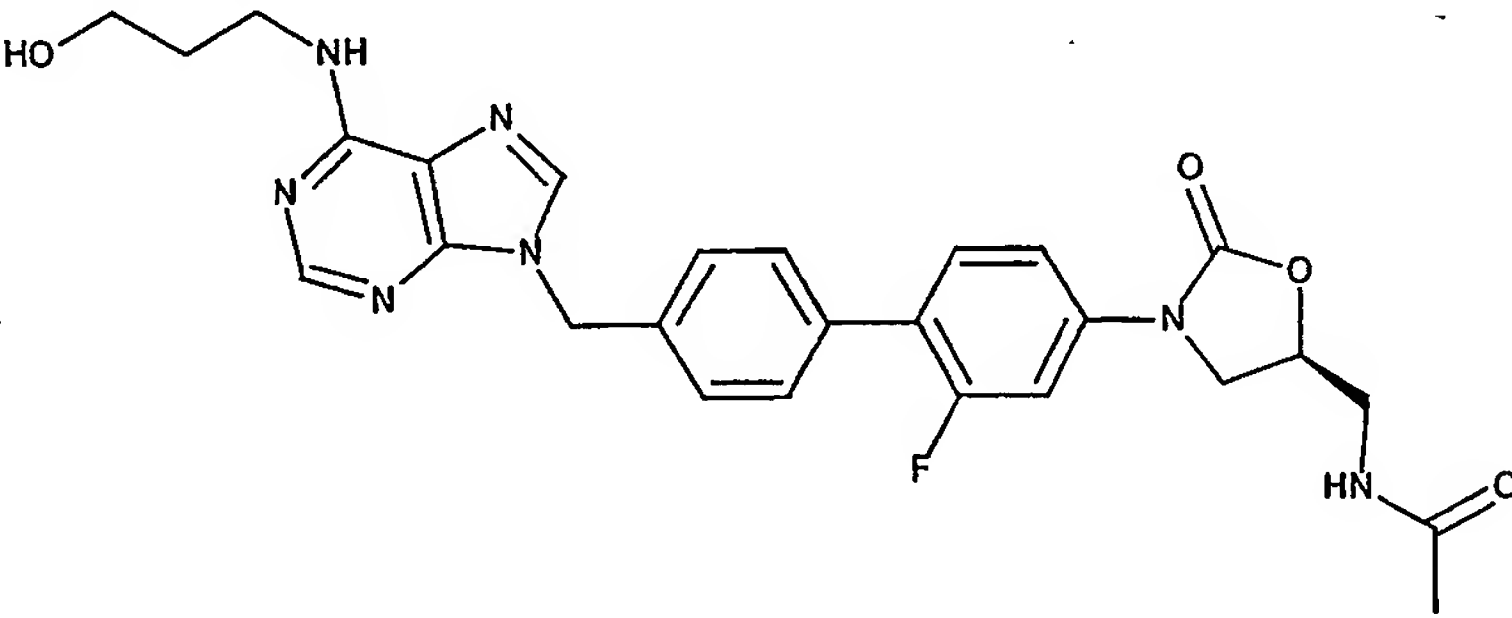
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1088	
	N-{3-[2-Fluoro-4'-(3-(R)-hydroxy-pyrrolidin-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1089	
	N-{3-[2,6-Difluoro-4'-(4-hydroxymethyl-[1,2,3]triazol-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1090	
	N-[3-(4'-Azetidin-1-ylmethyl-2-fluoro-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
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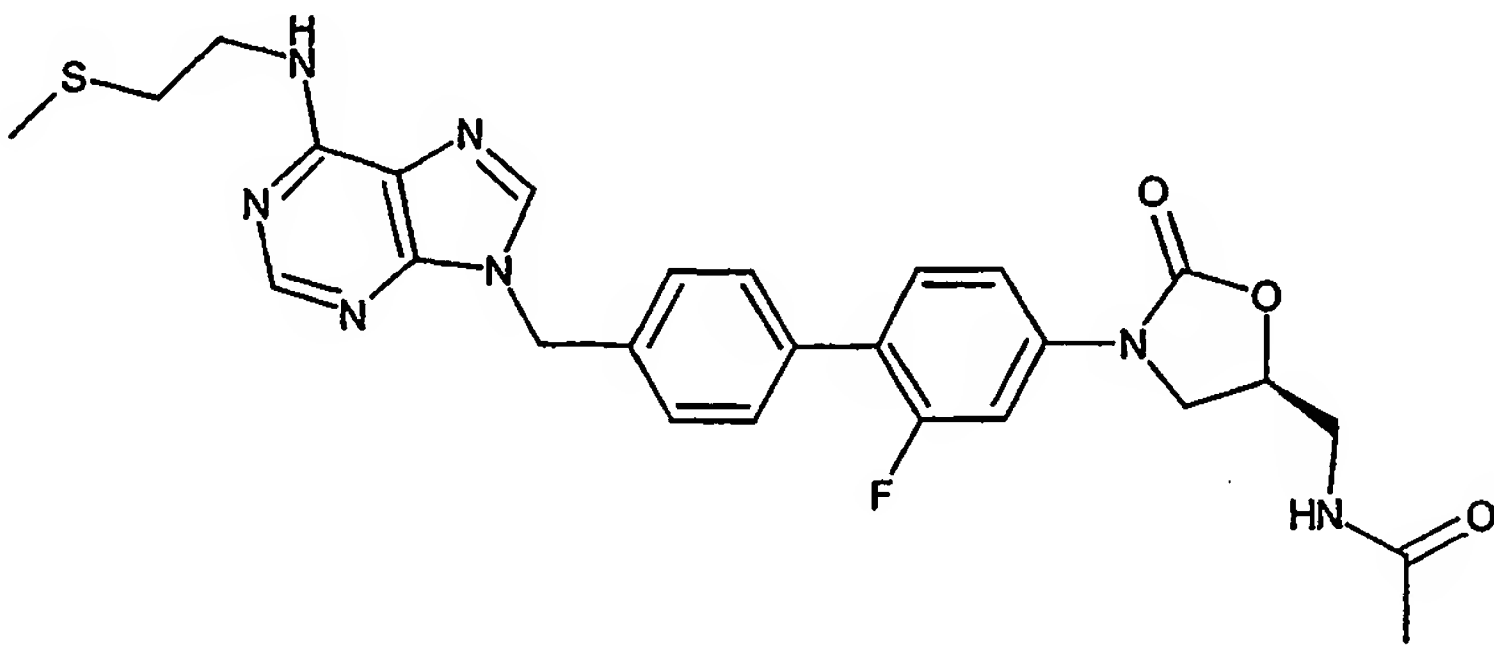
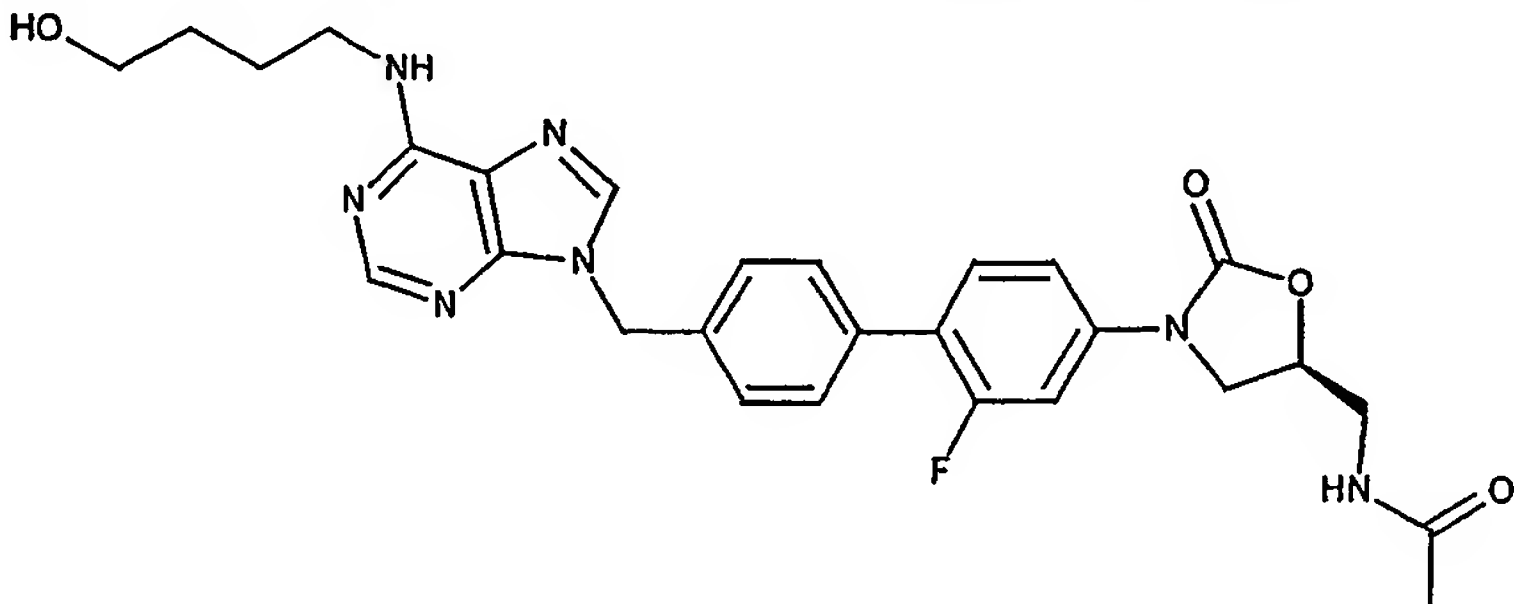
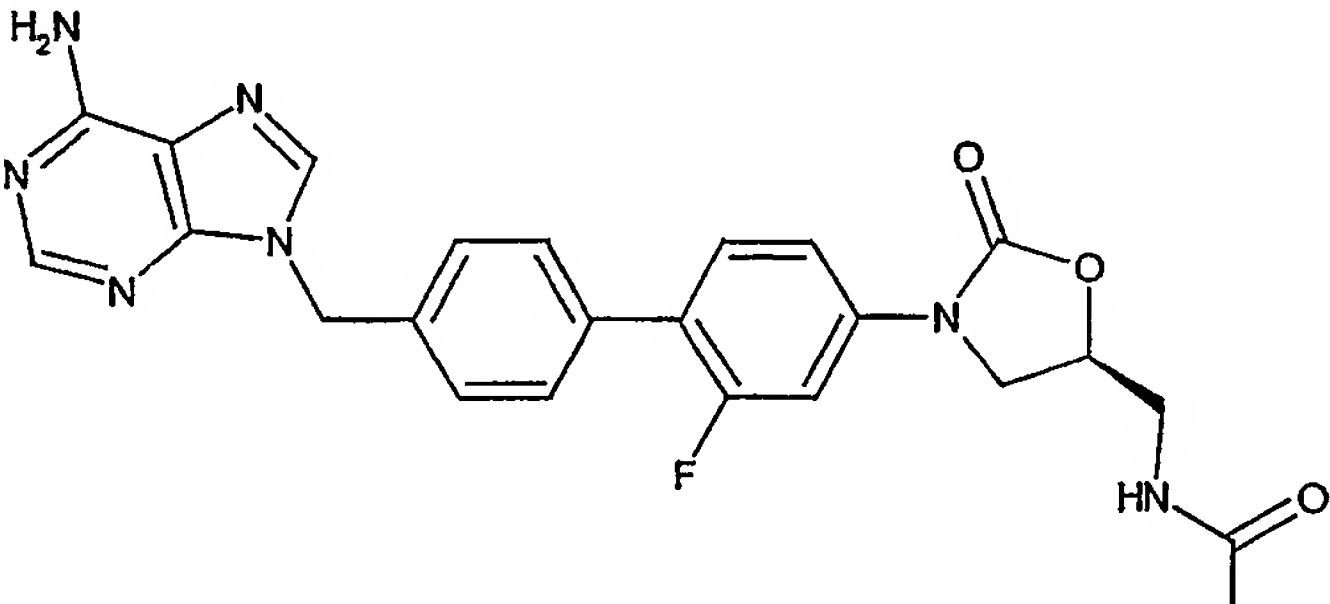
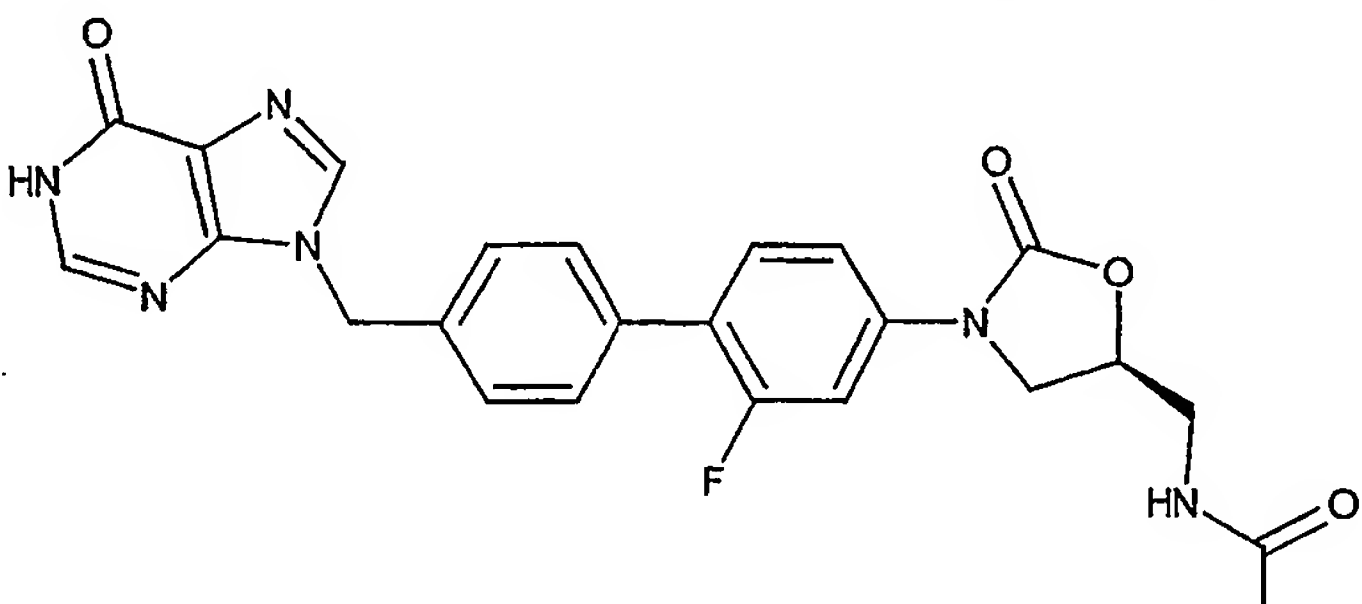
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	N-{3-[4'-(3-(S)-Amino-pyrrolidin-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1093	
	1-{4'-[5-(S)-(Acetylaminomethyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-pyrrolidine-3-(R/S)-carboxylic acid amide
1094	
	N-{3-[2-Fluoro-4'-(4-fluoro-piperidin-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1095	
	N-{3-[2-Fluoro-4'-(5-fluoromethyl-2-oxo-oxazolidin-3-(R/S)ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

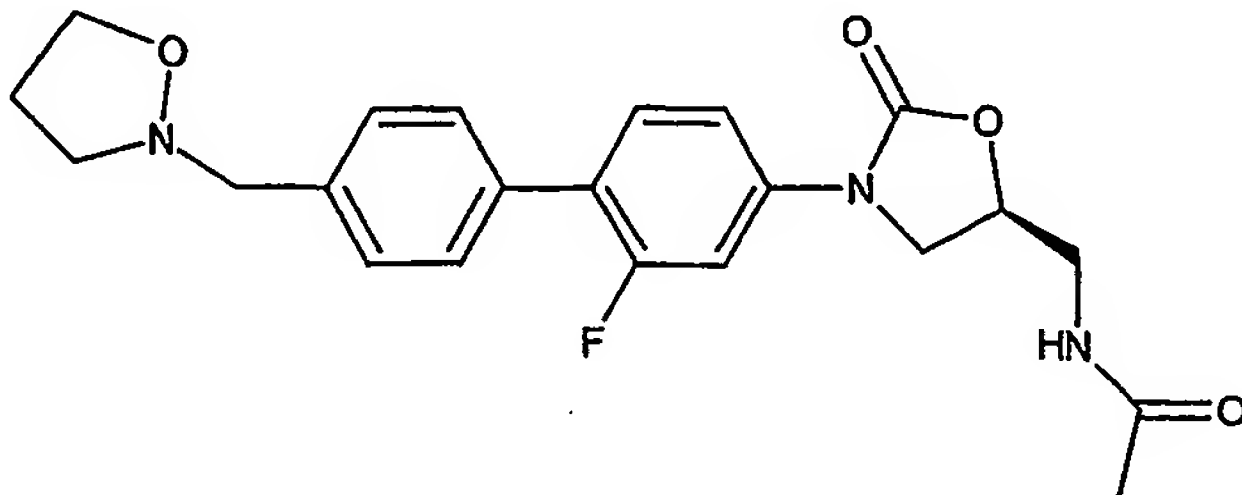
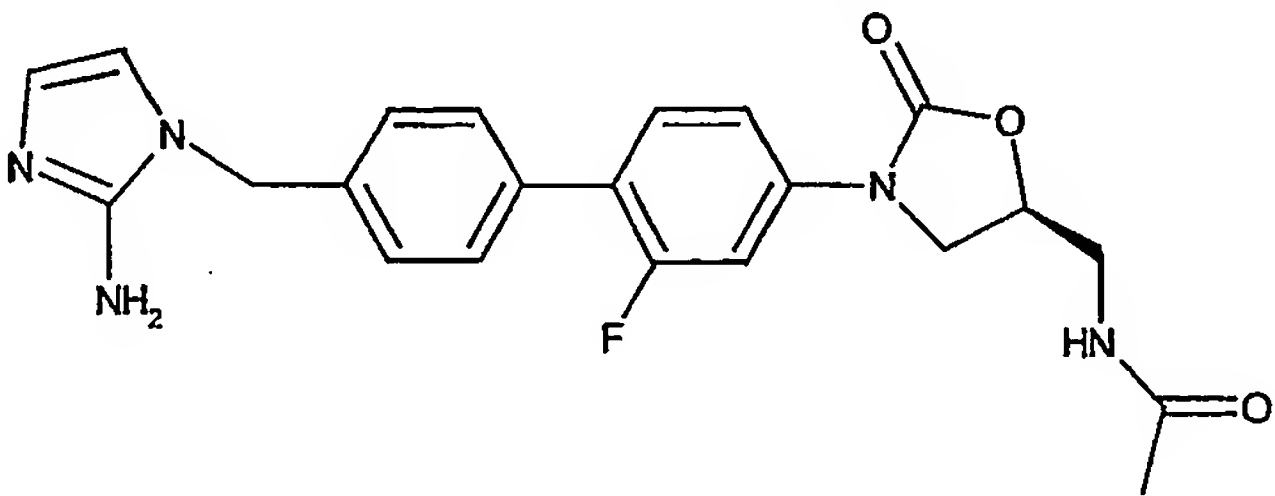
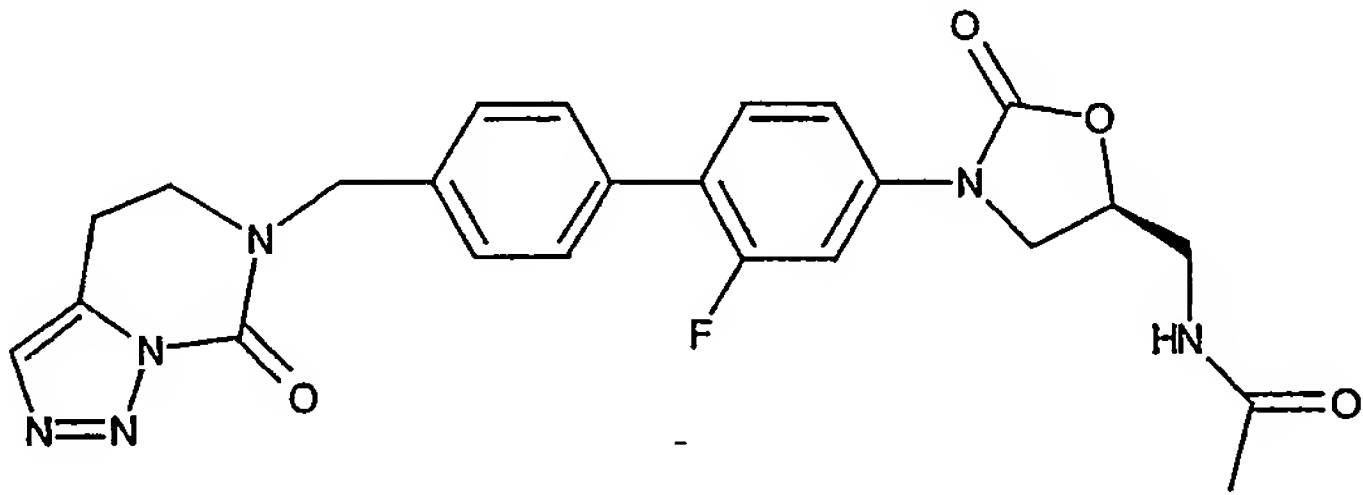
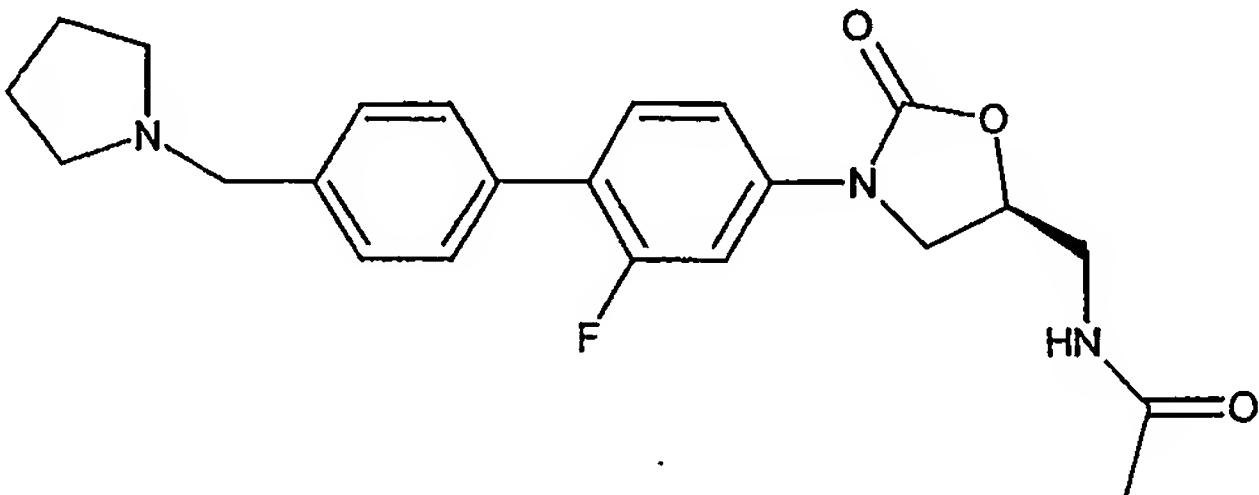
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1097	
	N-{3-[4'-(3,3-Difluoro-piperidin-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1098	
	N-(3-{2-Fluoro-4'-[6-(3-fluoro-propylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

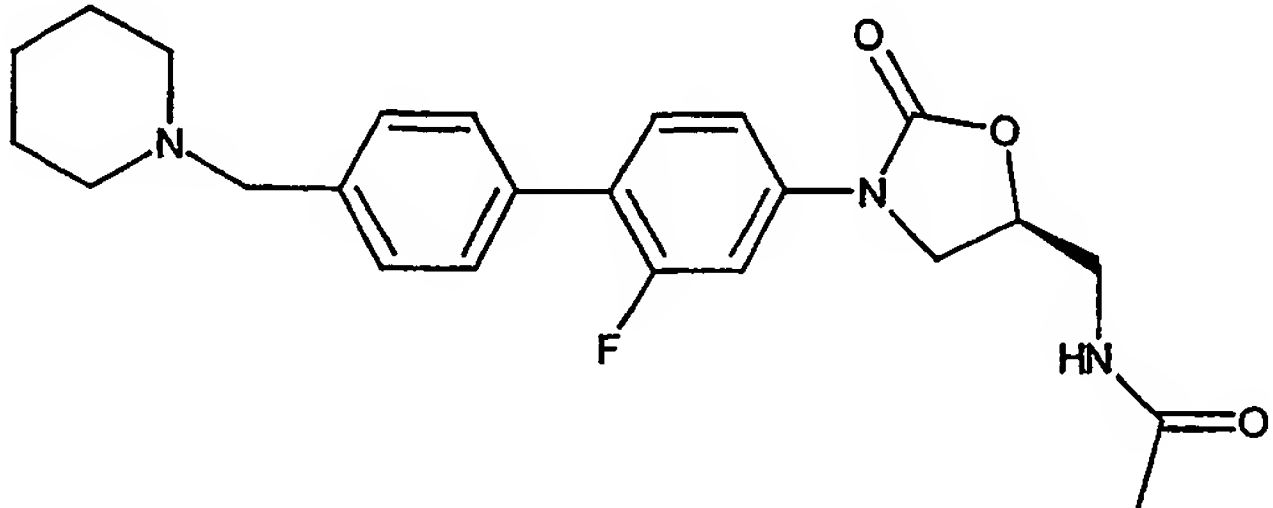
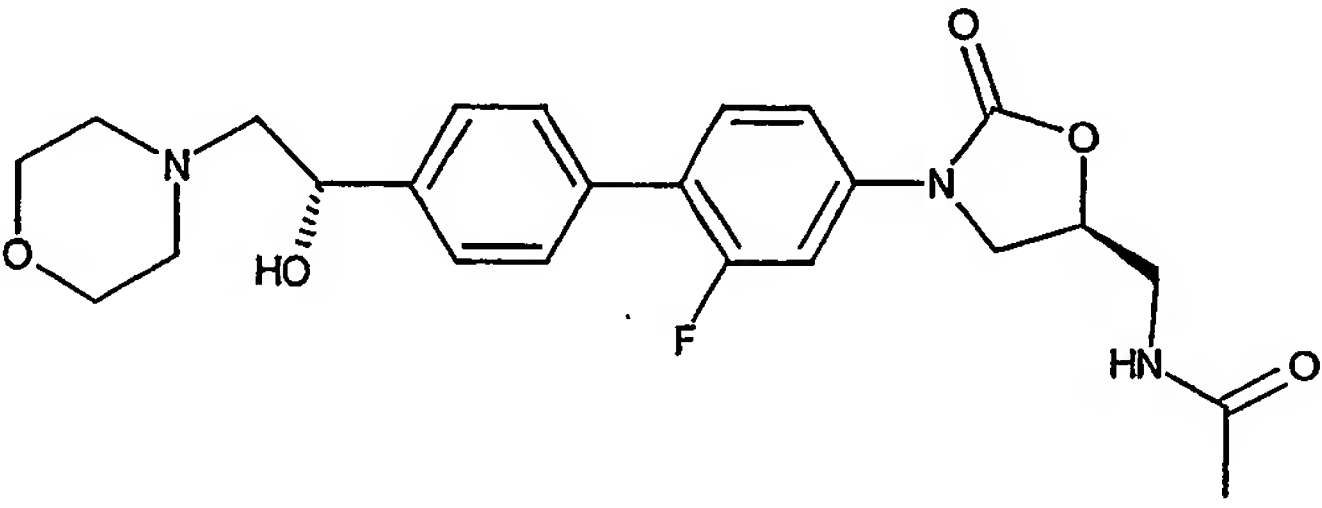
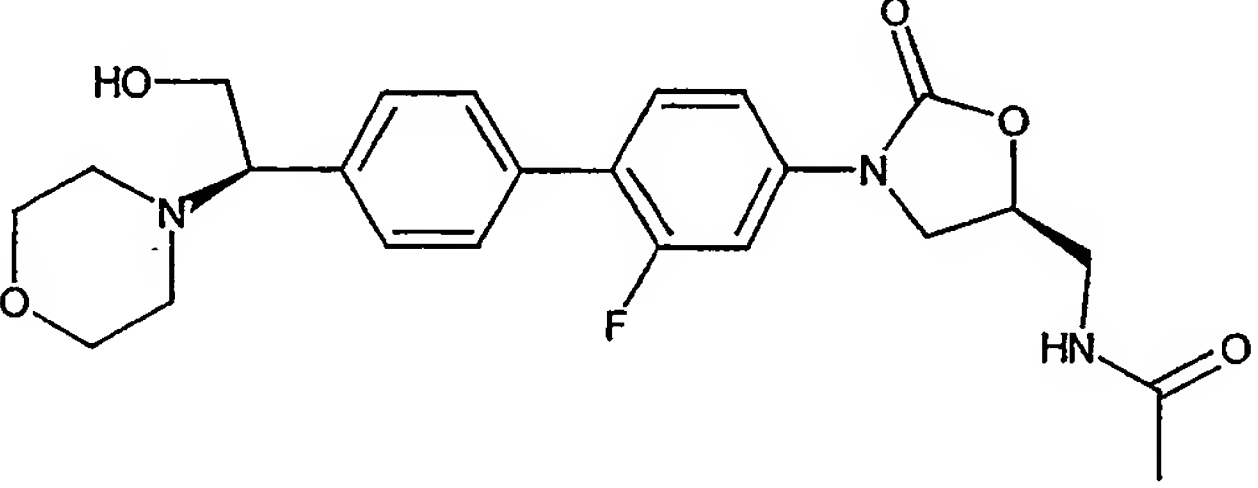
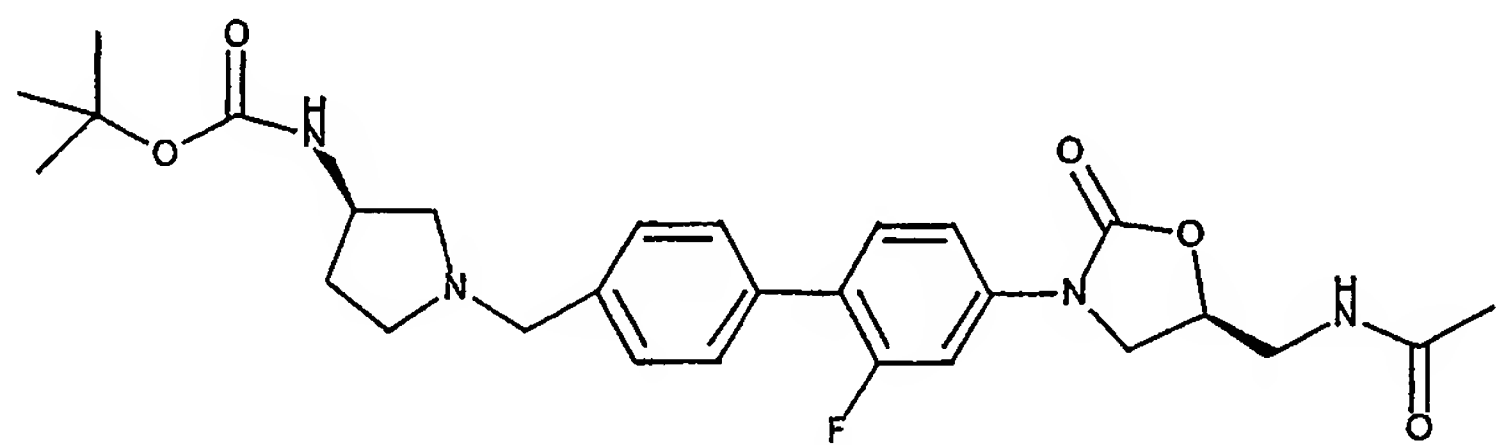
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	N-(3-{2-Fluoro-4'-[6-(2-hydroxy-ethylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1100	
	N-{3-[4'-(6-Chloro-purin-9-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1101	
	N-{3-[2-Fluoro-4'-(2-oxo-oxazolidin-3-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

1102	
	N-(3-{2-Fluoro-4'-[6-(2-fluoro-ethylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1103	
	N-(3-{4'-[6-(2,2-Difluoro-ethylamino)-purin-9-ylmethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1104	
	N-(3-{2-Fluoro-4'-[6-(2,2,2-trifluoro-ethylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

1105	
	N-{3-[4'-(6-Dimethylamino-purin-9-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1106	
	N-{3-[2-Fluoro-4'-(6-methylamino-purin-9-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1107	
	N-(3-{2-Fluoro-4'-[6-(3-hydroxy-propylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

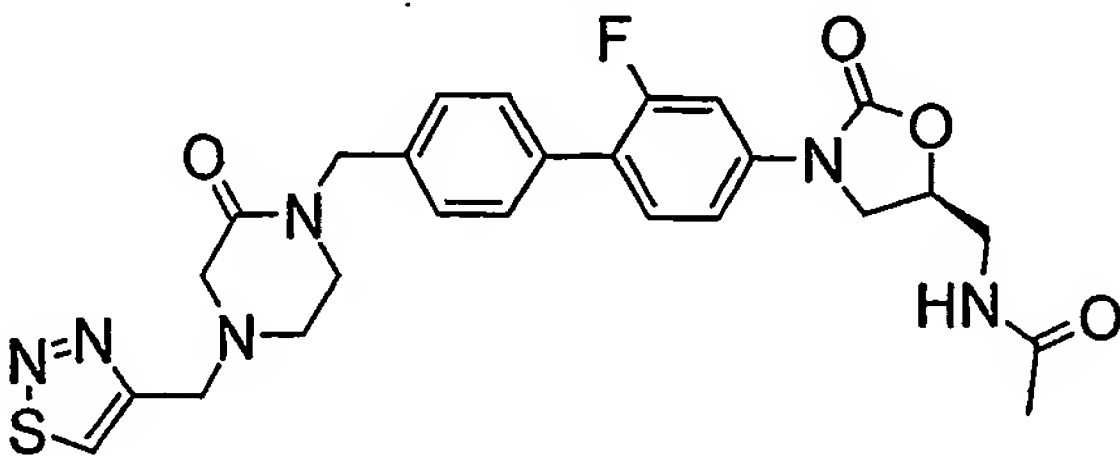
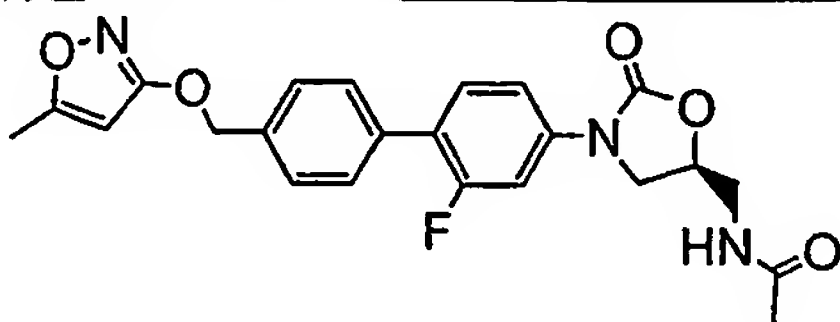
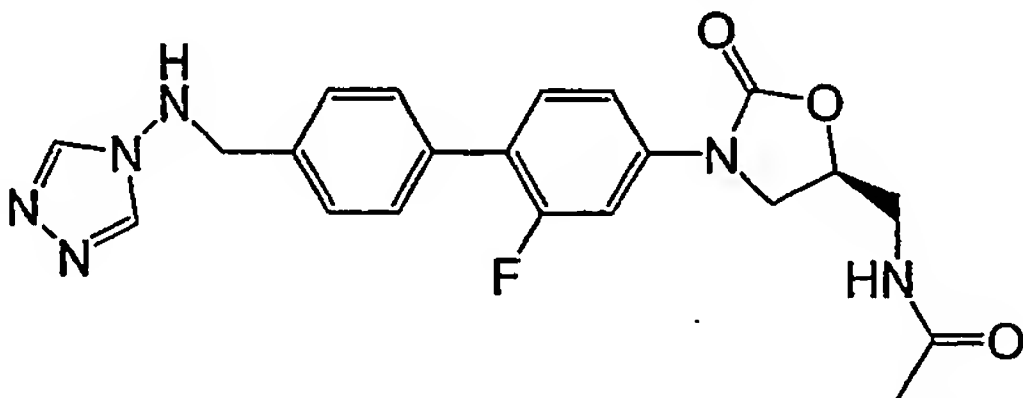
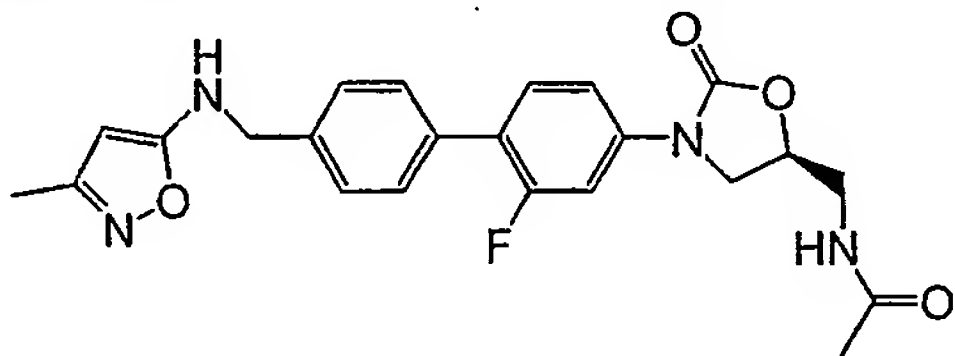
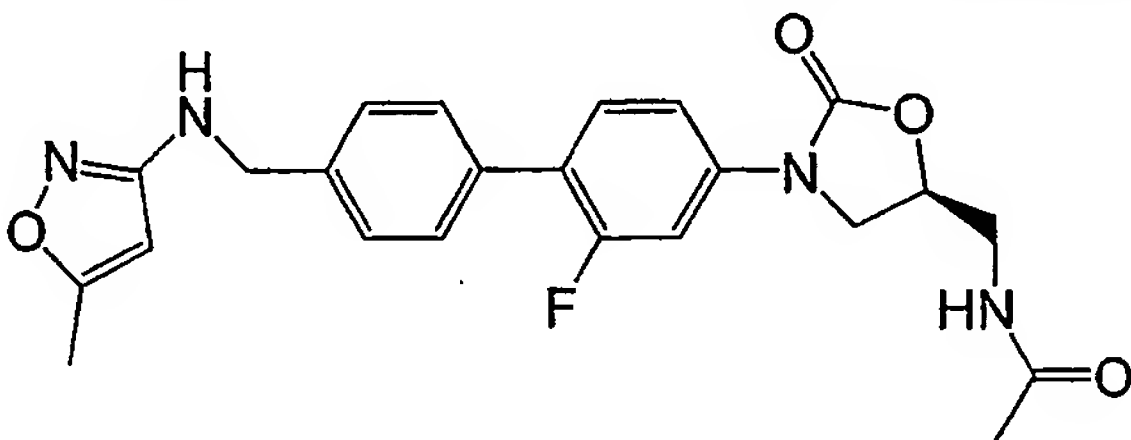
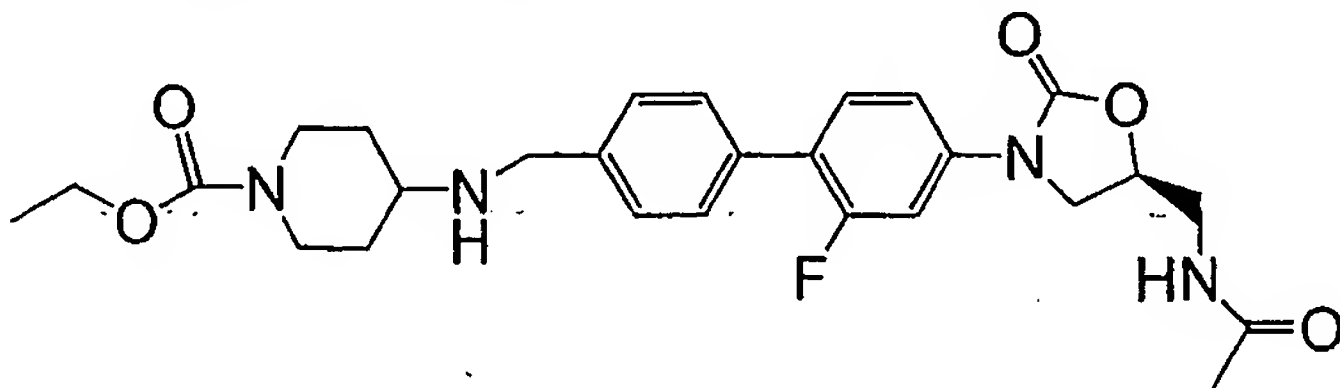
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	N-(3-{2-Fluoro-4'-[6-(2-methylsulfanylmethylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1109	
	N-(3-{2-Fluoro-4'-[6-(4-hydroxybutylamino)-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1110	
	N-(3-{2-Fluoro-4'-[6-amino-9H-purin-9-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
1111	

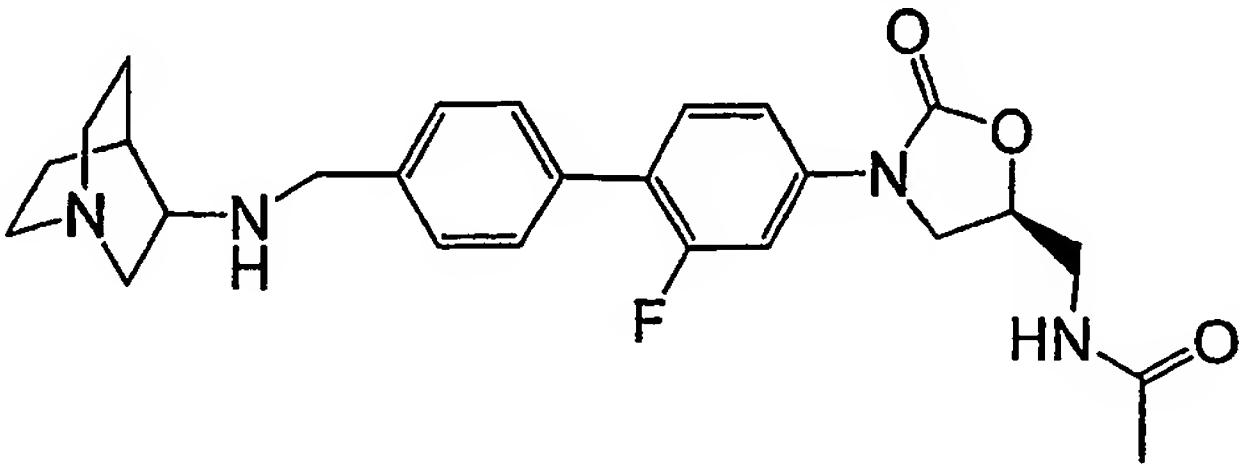
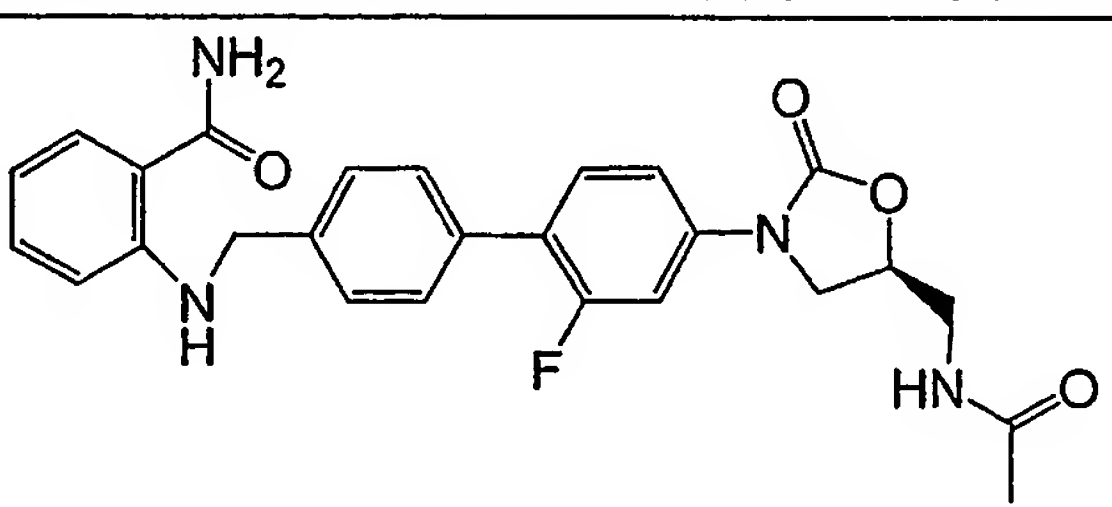
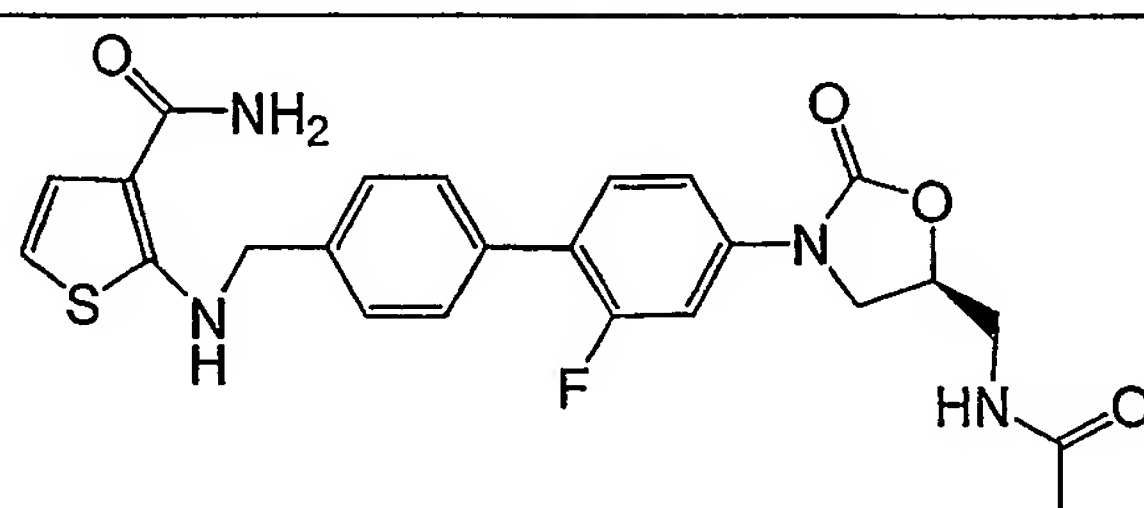
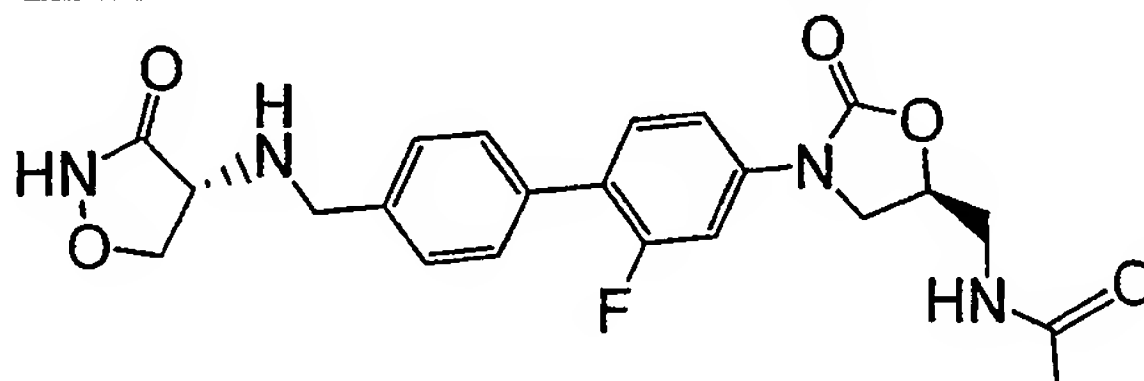
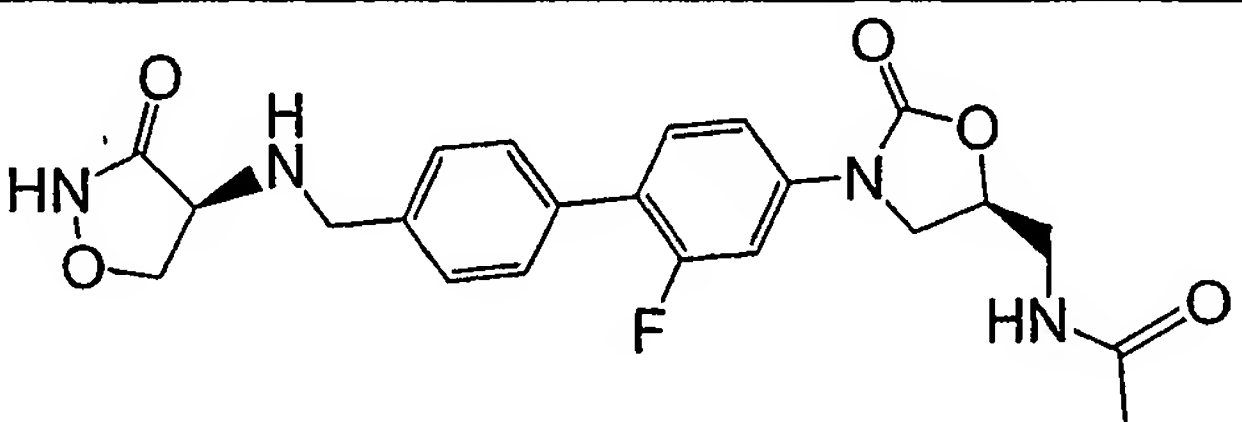
	N-{3-[2-Fluoro-4'-(6-oxo-1,6-dihydro-purin-9-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1112	
	N-[3-(2-Fluoro-4'-isoxazolidin-2-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1113	
	N-{3-[4'-(2-Amino-imidazol-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1114	
	N-{3-[2-Fluoro-4'-(7-oxo-4,5-dihydro-[1,2,3]triazolo[1,5-c]pyrimidin-6-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1115	
	N-[3-(2-Fluoro-4'-pyrrolidin-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

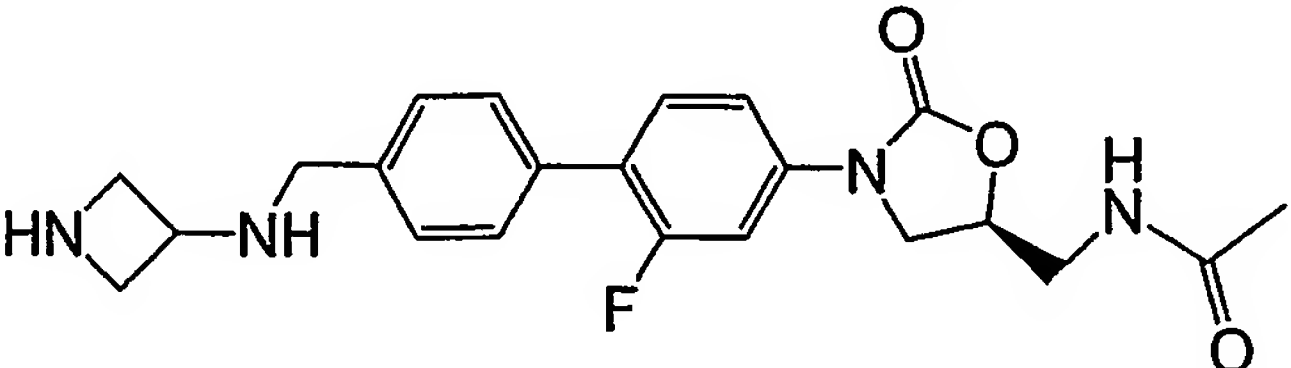
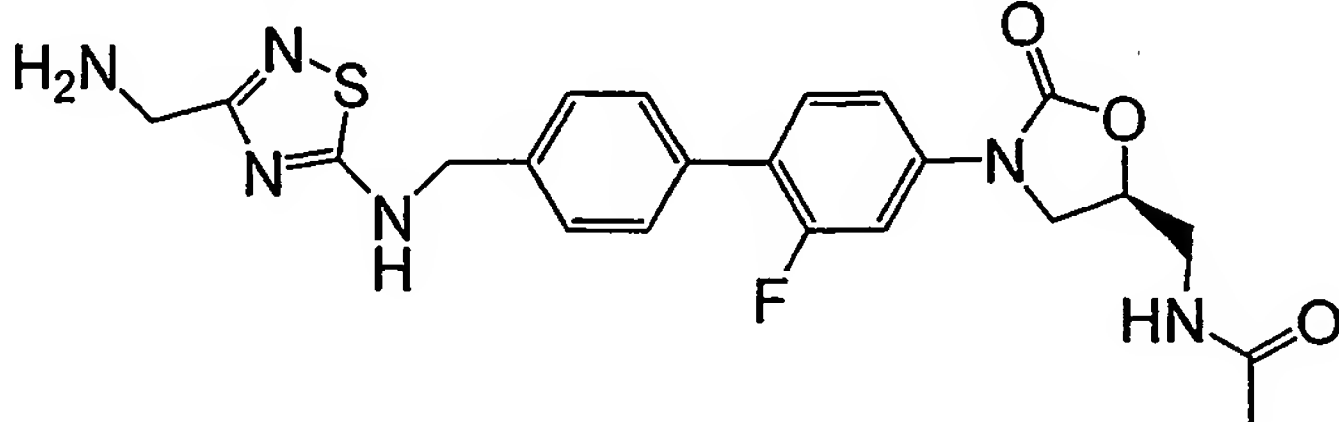
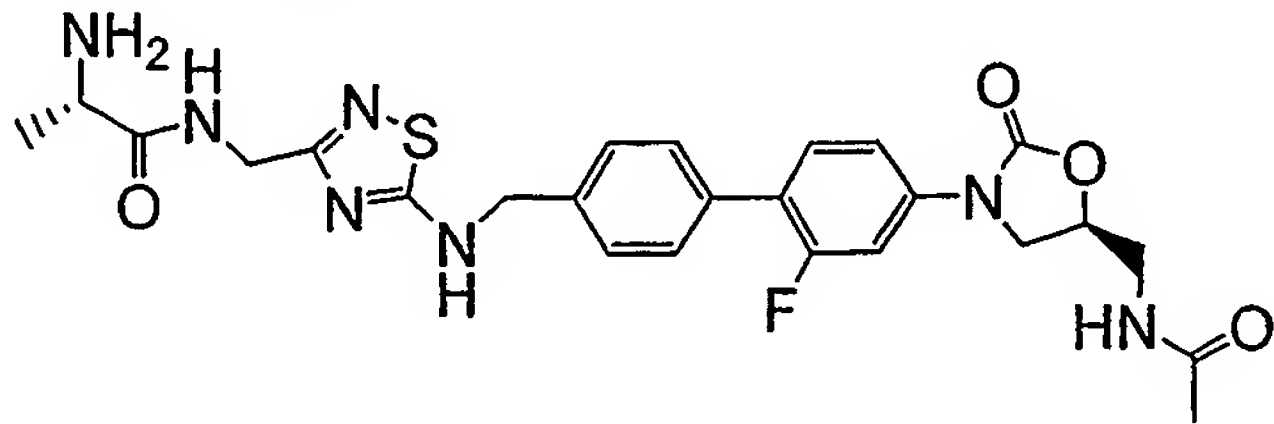
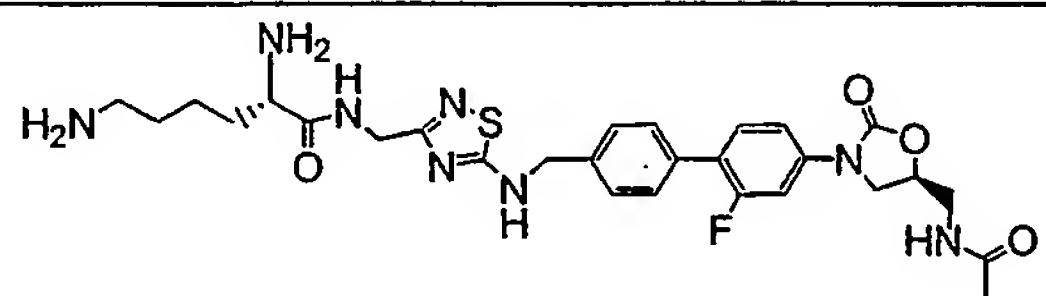
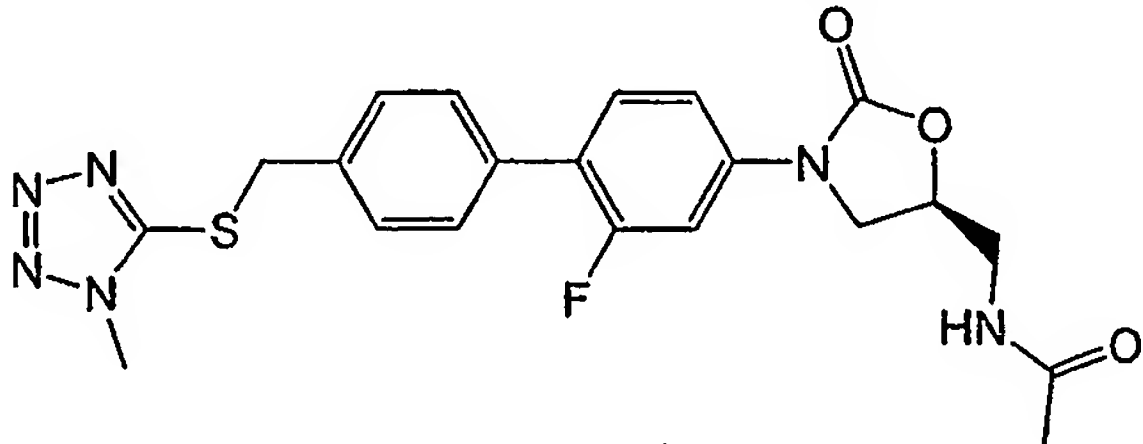
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	N-[3-(2-Fluoro-4'-piperidin-1-ylmethyl-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
1117	
	N-{3-[2-Fluoro-4'-(1-(S)-hydroxy-2-morpholin-4-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1118	
	N-{3-[2-Fluoro-4'-(2-hydroxy-1-(R)-morpholin-4-yl-ethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1119	
	(1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-pyrrolidin-3-(R)-yl)-carbamic acid tert-butyl ester

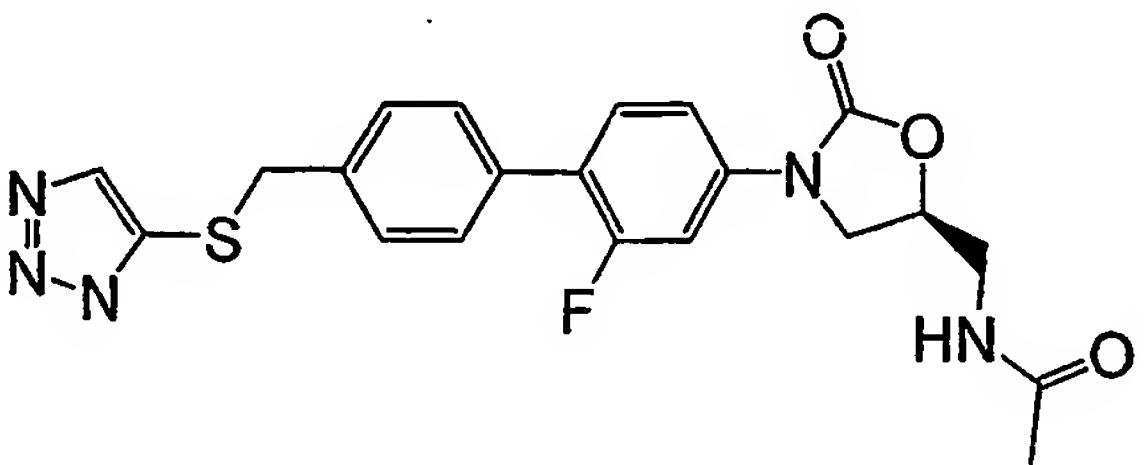
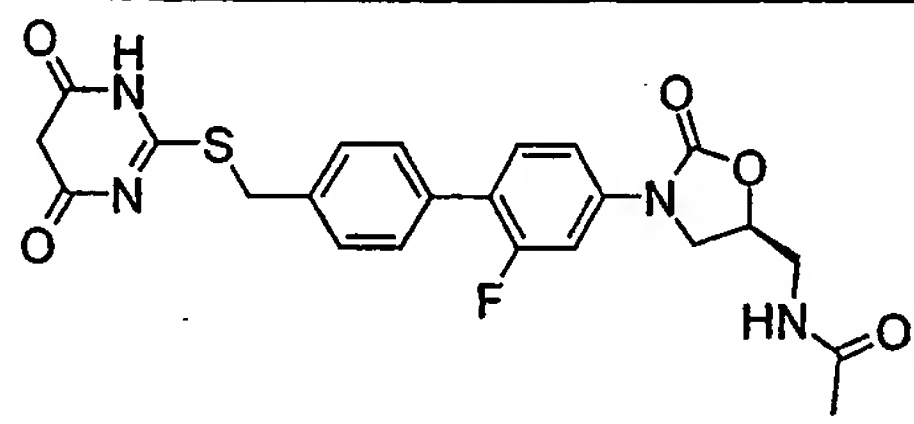
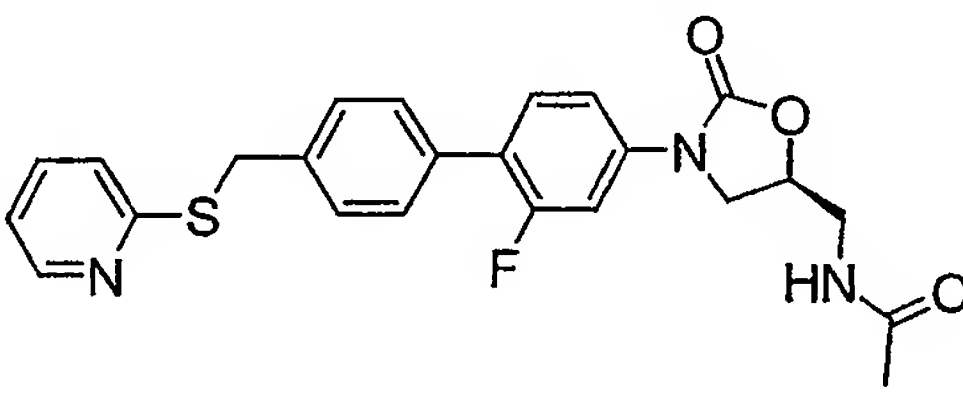
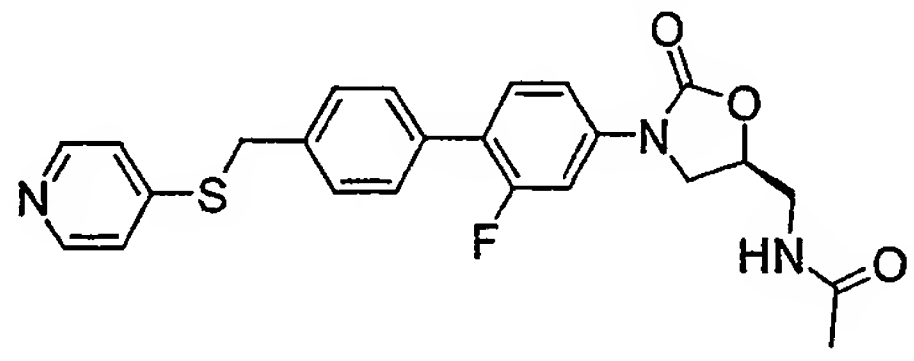
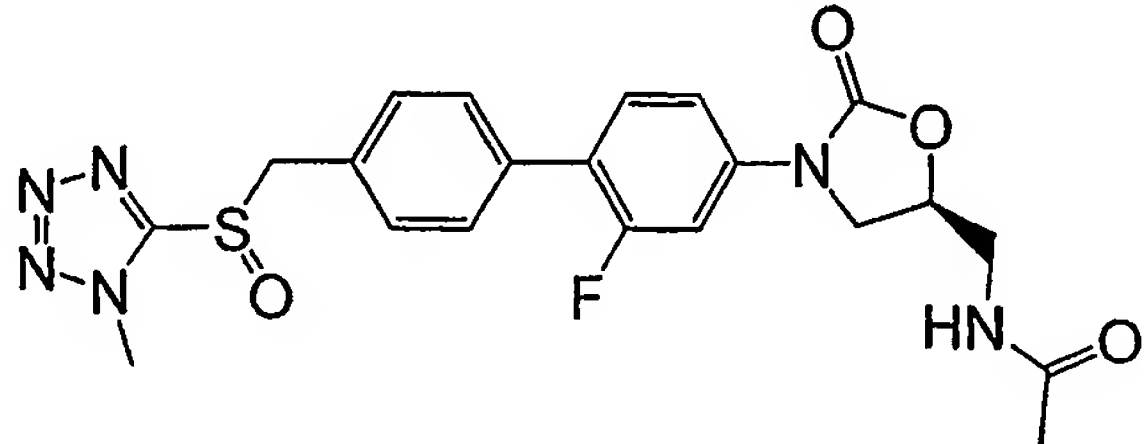
1120	
	(1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-pyrrolidin-3-(S)-yl)-carbamic acid tert-butyl ester
1121	
	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-piperidine-3-(R/S)-carboxylic acid amide
1122	
	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-pyrrolidine-2-(S)-carboxylic acid amide
1123	
	N-{3-[2-Fluoro-4'-(3-oxo-piperazin-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1124	
	N-{3-[4'-(2,2-Dimethyl-4-oxo-imidazolidin-1-ylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

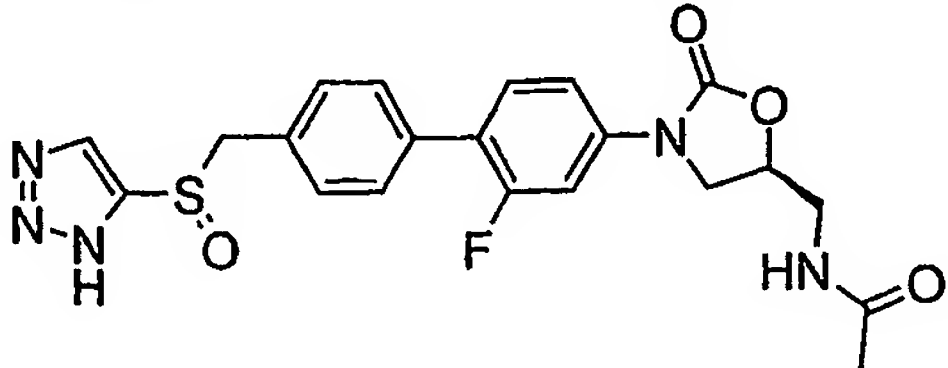
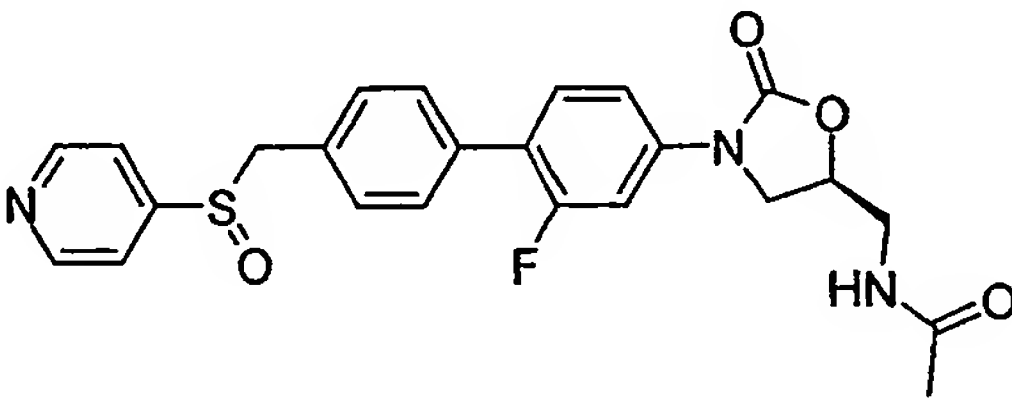
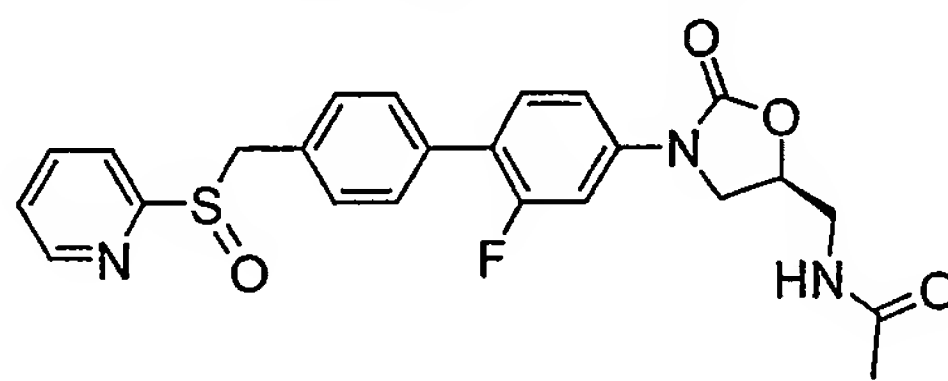
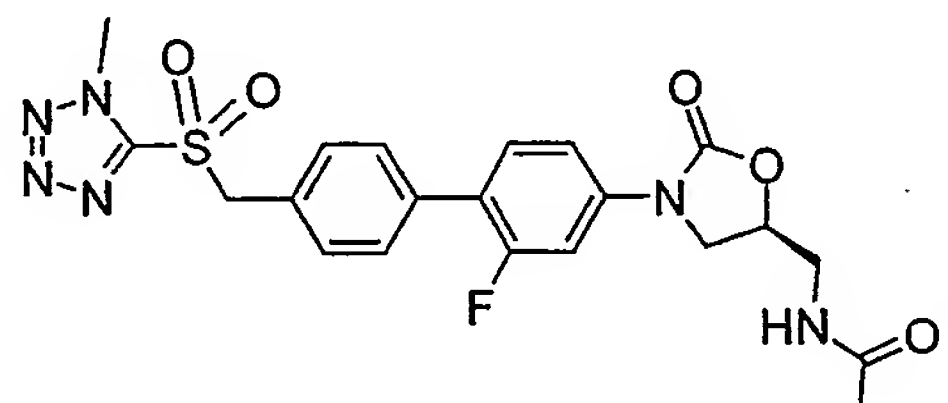
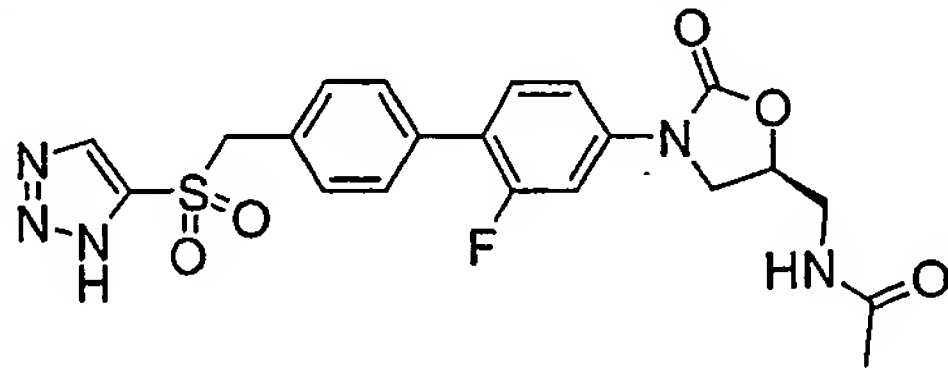
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	1-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-azetidine-3-(R/S)-carboxylic acid amide
1126	
	1-{4'-[5-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-azetidine-2-carboxylic acid amide
1127	
	N-{3-[2-Fluoro-4'-(2-oxo-piperazin-1-ylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
1128	
	2-(4-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-oxo-piperazin-1-yl)-acetamide
1129	
	N-{3-[4'-(4-Cyanomethyl)-2-oxo-piperazin-1-ylmethyl]-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide.

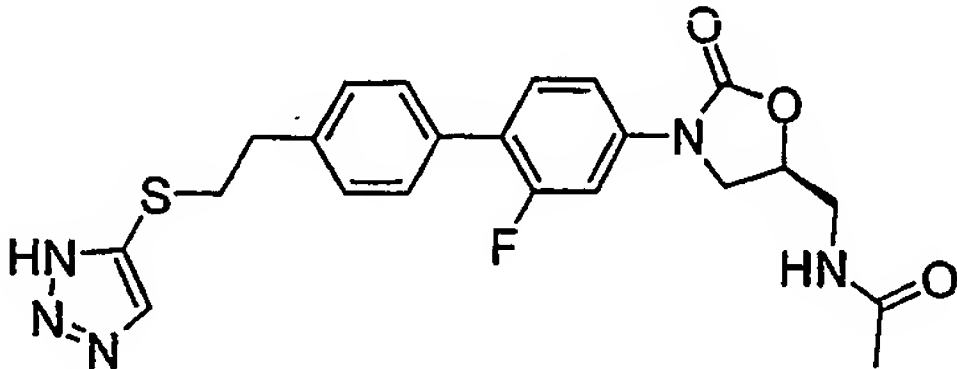
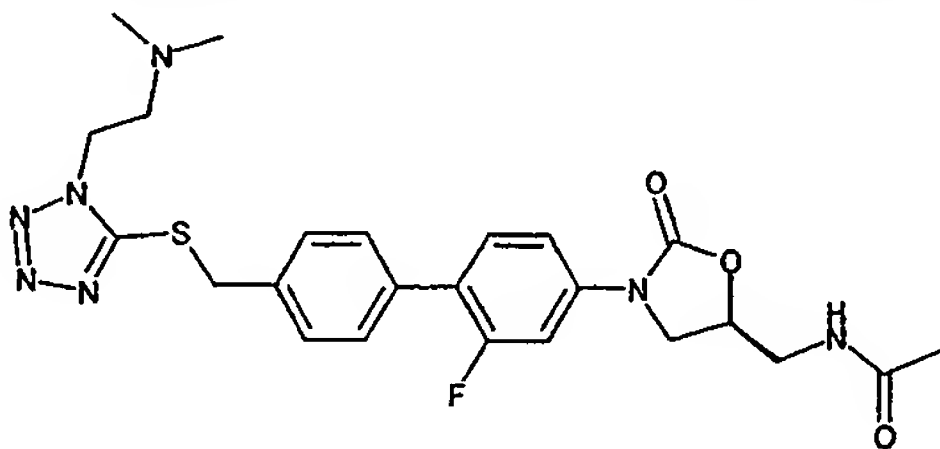
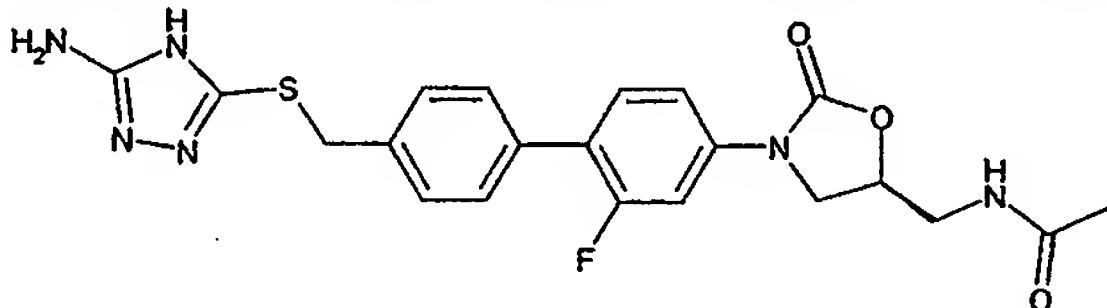
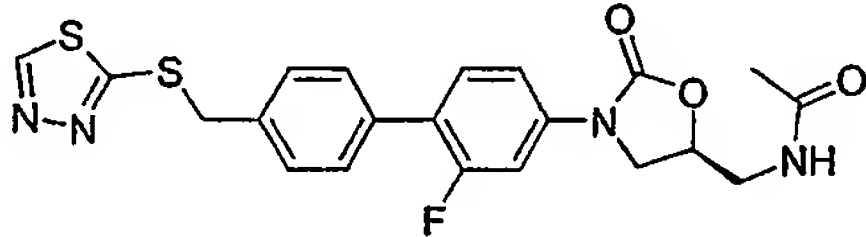
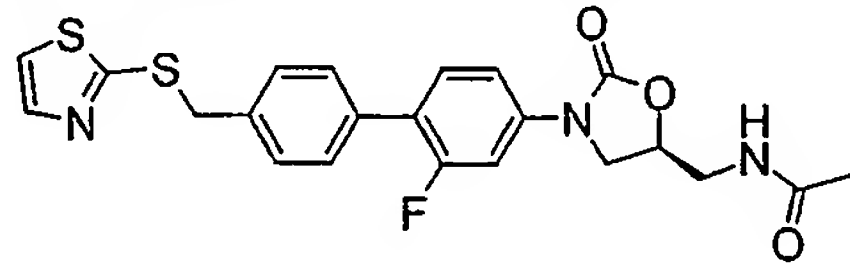
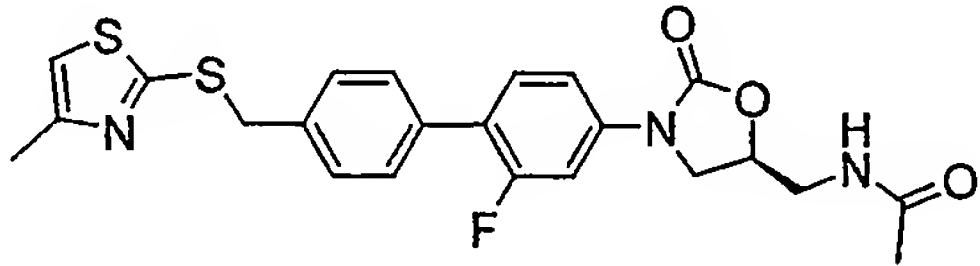
1130	
	N-{3-[2-Fluoro-4'-(2-oxo-4-[1,2,3]thiadiazol-4-ylmethyl)-piperazin-1-ylmethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2001	
	N-{3-[2-Fluoro-4'-(5-methyl-isoxazol-3-yloxymethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2002	
	N-{3-[2-Fluoro-4'-([1,2,4]triazol-4-ylaminomethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2003	
	N-(3-{2-Fluoro-4'-[(3-methyl-isoxazol-5-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2004	
	N-(3-{2-Fluoro-4'-[(5-methyl-isoxazol-3-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2005	

	4-({4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-piperidine-1-carboxylic acid ethyl ester
2006	
	N-(3-{4'-[(1-Aza-bicyclo[2.2.2]oct-3-ylamino)-methyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2007	
	2-({4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-benzamide
2008	
	2-({4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-thiophene-3-carboxylic acid amide
2009	
	N-(3-{2-Fluoro-4'-[(3-oxo-isoxazolidin-4-(R)-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2010	
	N-(3-{2-Fluoro-4'-[(3-oxo-isoxazolidin-4-(S)-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide

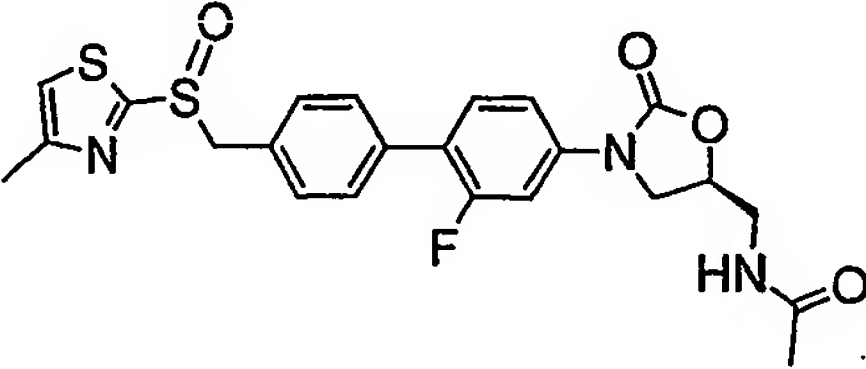
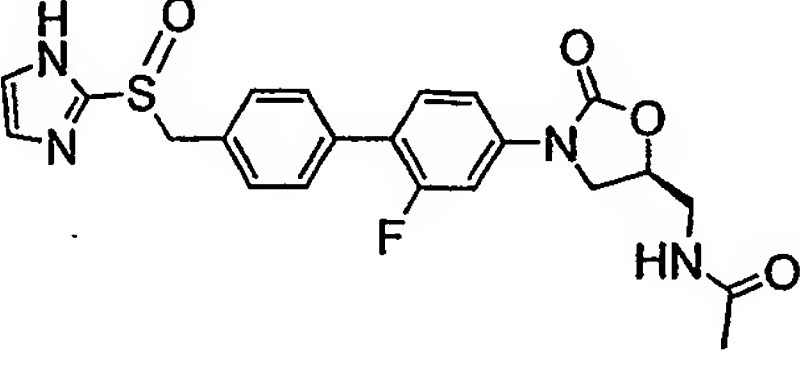
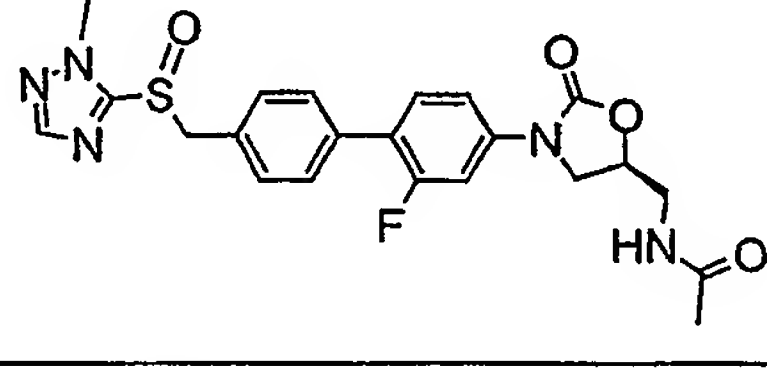
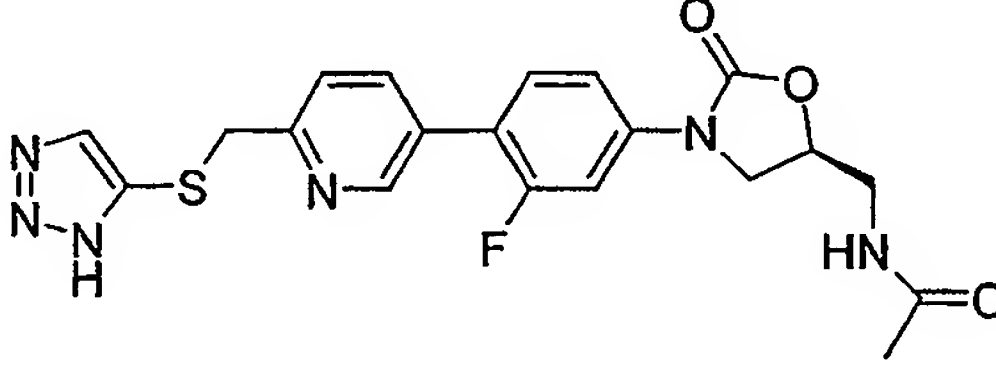
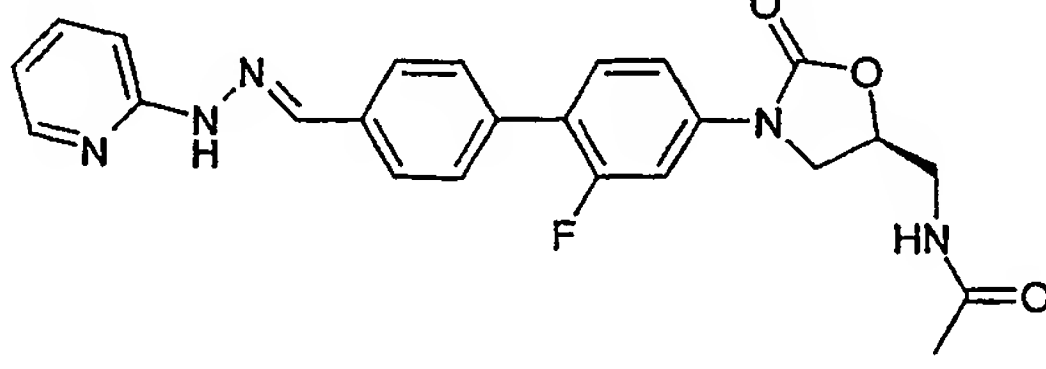
2011	
	N-{3-[4'-(Azetidin-3-(R/S)-ylaminomethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2012	
	N-(3-{4'-[(3-Aminomethyl-[1,2,4]thiadiazol-5-ylamino)-methyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2013	
	N-[5-({4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-[1,2,4]thiadiazol-3-ylmethyl]-2-(S)-amino-propionamide
2014	
	2,6-Diamino-hexanoic acid [5-({4'-[5-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-[1,2,4]thiadiazol-3-ylmethyl]-amide
2015	
	N-{3-[2-Fluoro-4'-(1-methyl-1H-tetrazol-5-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

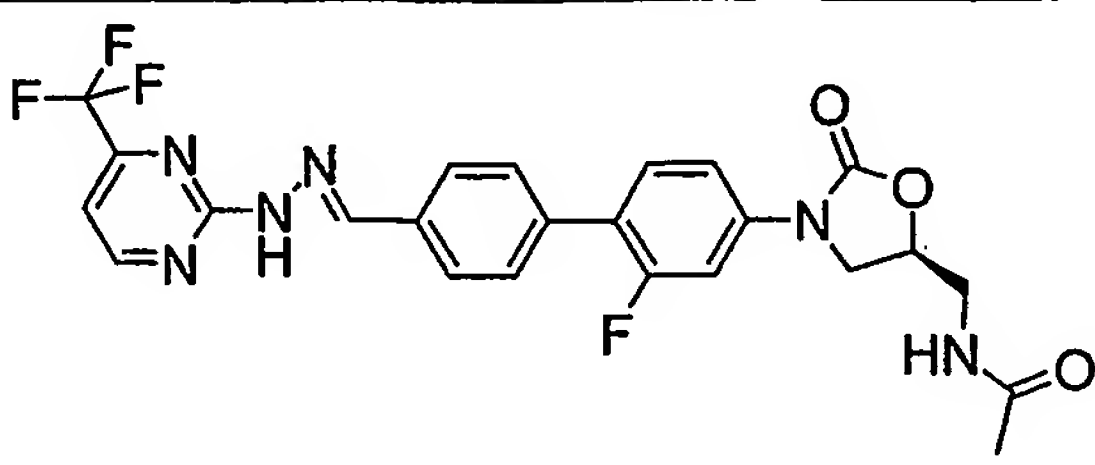
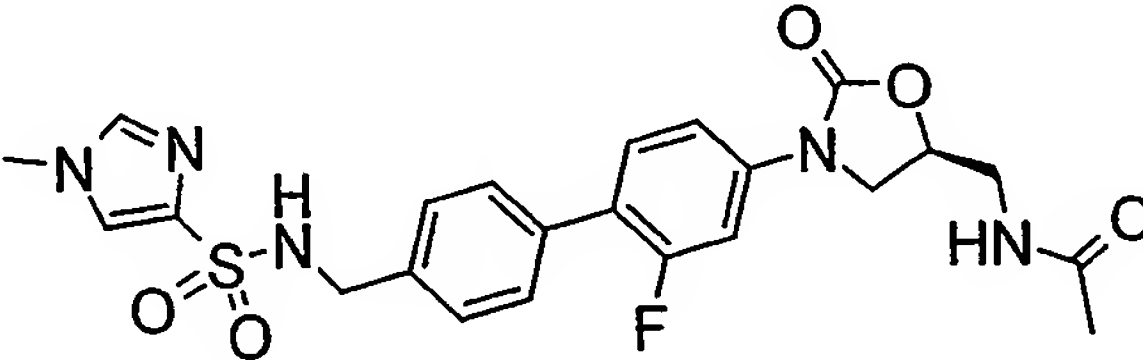
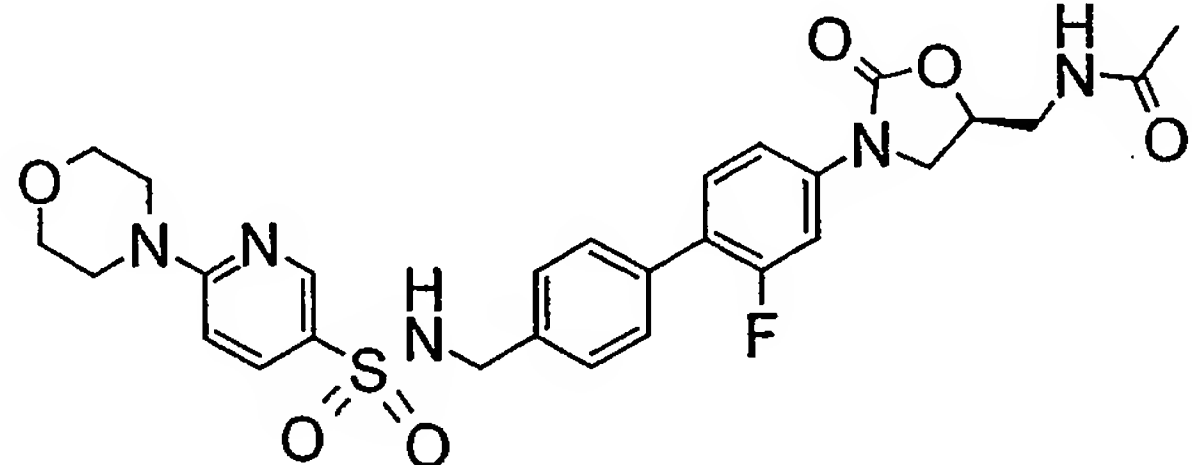
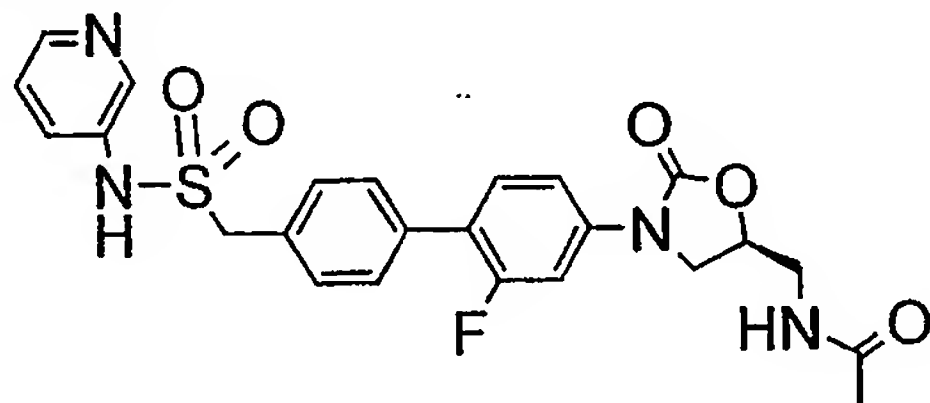
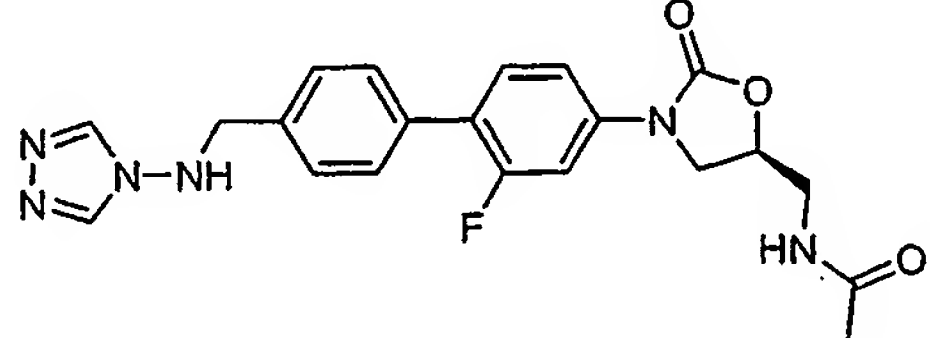
2016	
	N-{3-[2-Fluoro-4'-(3H-[1,2,3]triazol-4-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2017	
	N-{3-[4'-(4,6-Dioxo-1,4,5,6-tetrahydro-pyrimidin-2-ylsulfanylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2018	
	N-{3-[2-Fluoro-4'-(pyridin-2-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2019	
	N-{3-[2-Fluoro-4'-(pyridin-4-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2020	
	N-{3-[2-Fluoro-4'-(1-methyl-1H-tetrazole-5-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

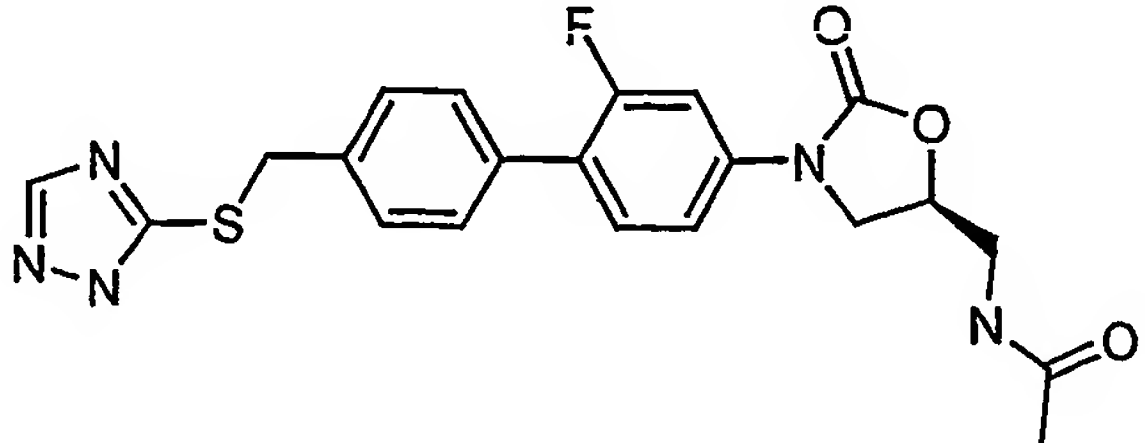
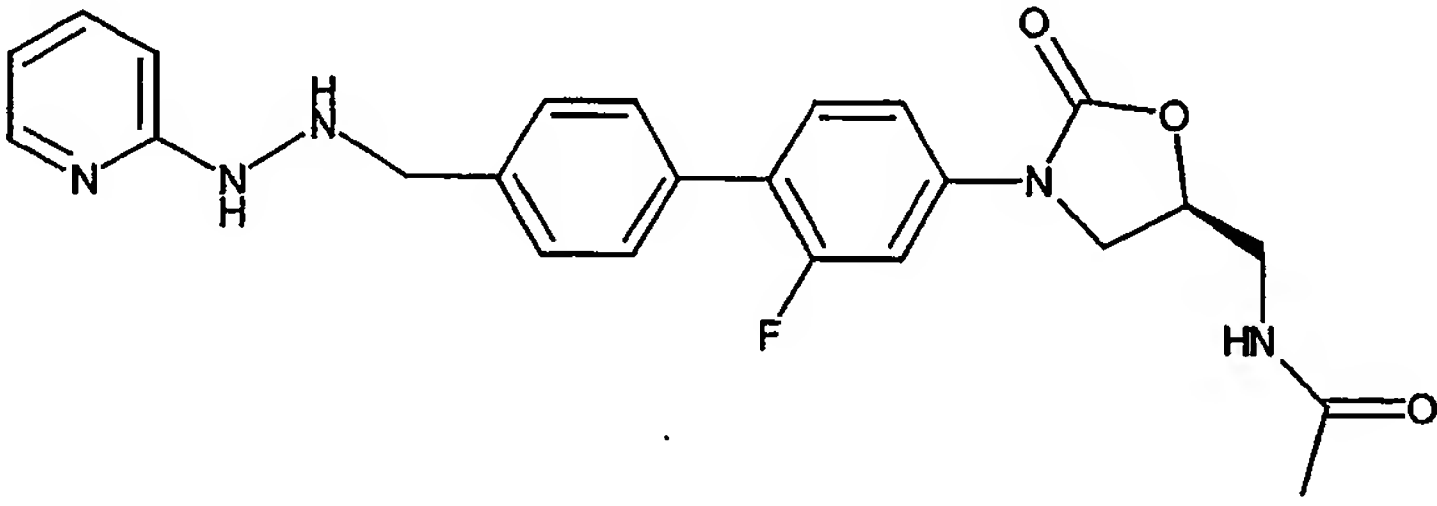
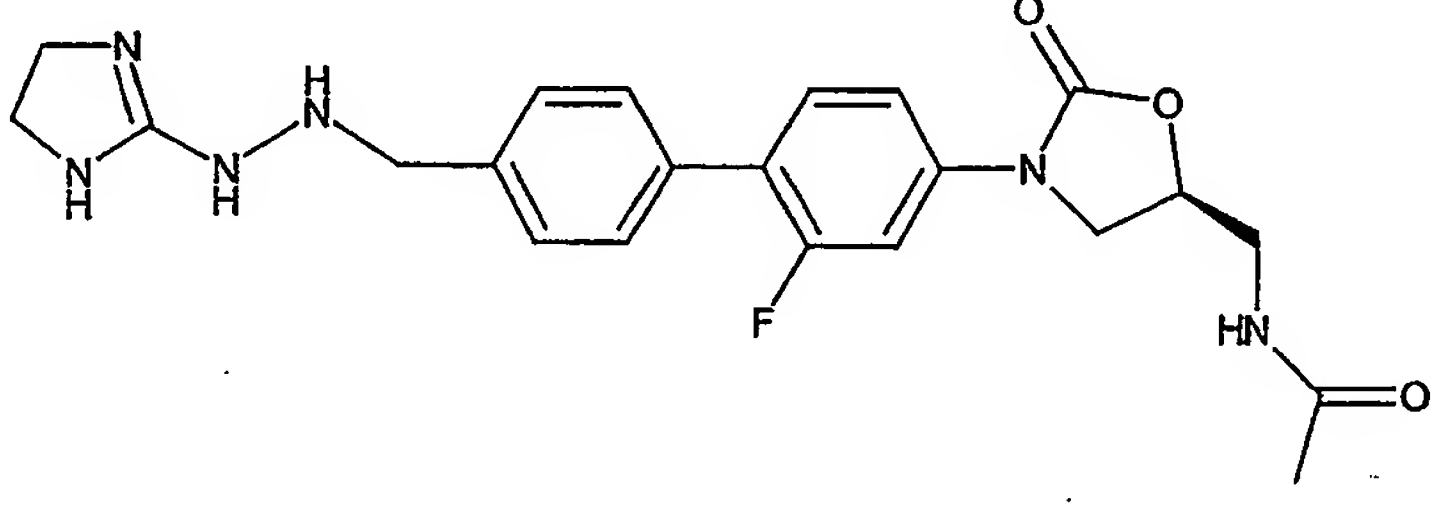
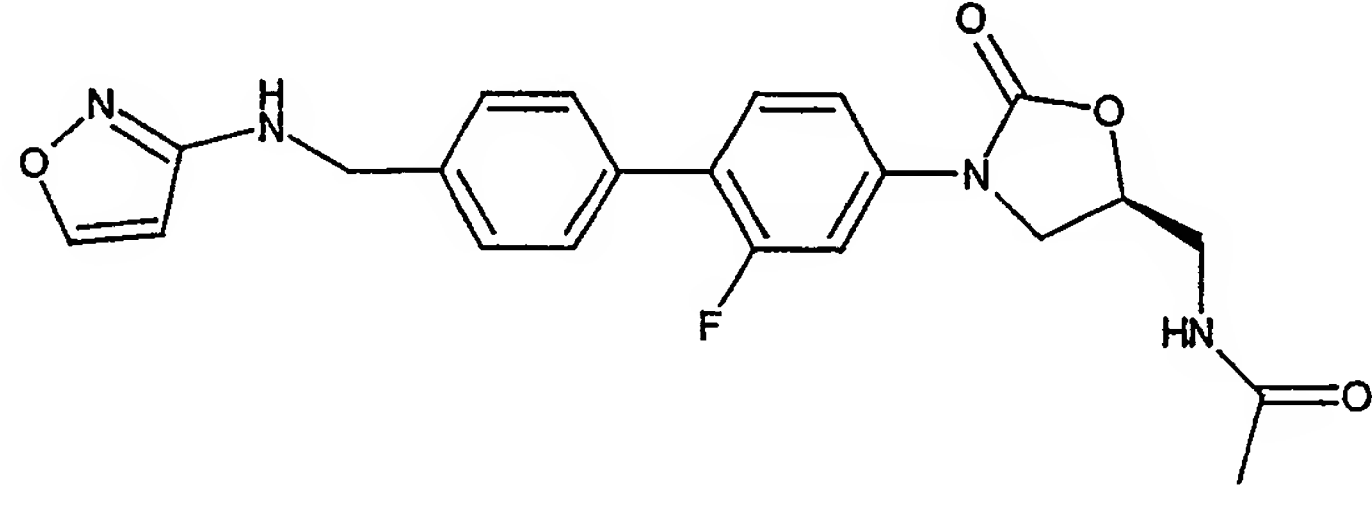
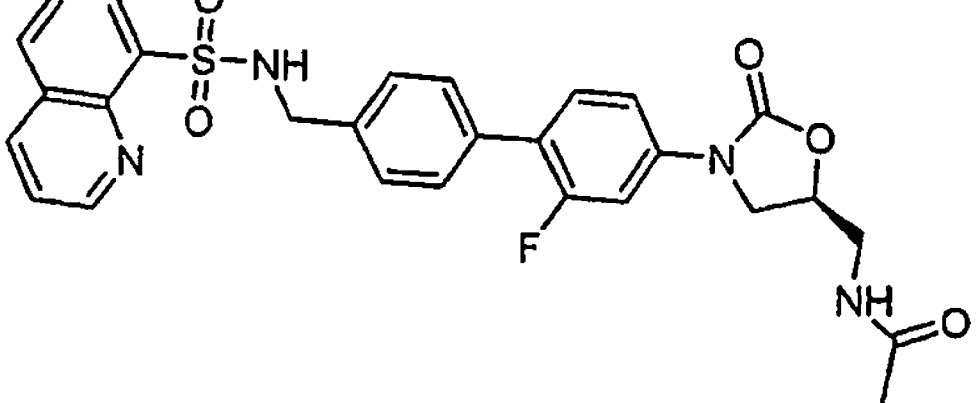
2021	
	N-{3-[2-Fluoro-4'-(3H-[1,2,3]triazole-4-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2022	
	N-{3-[2-Fluoro-4'-(pyridine-4-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2023	
	N-{3-[2-Fluoro-4'-(pyridine-2-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2024	
	N-{3-[2-Fluoro-4'-(1-methyl-1H-tetrazole-5-sulfonylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2025	
	N-{3-[2-Fluoro-4'-(3H-[1,2,3]triazole-4-sulfonylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

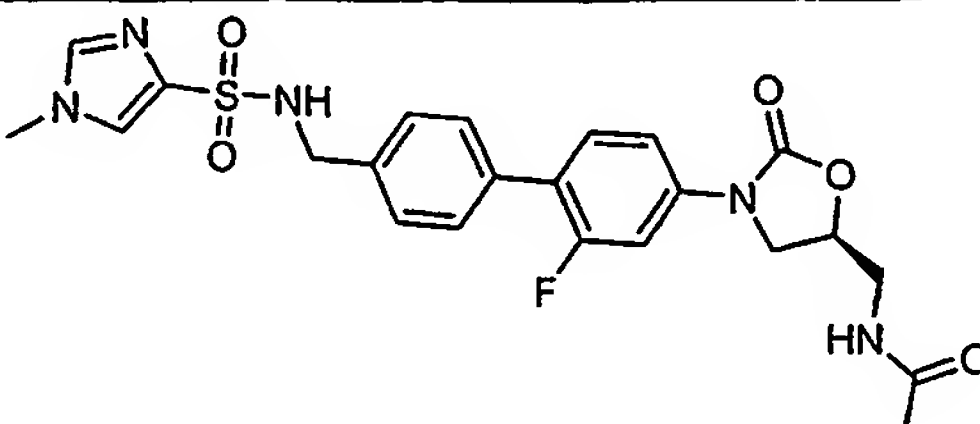
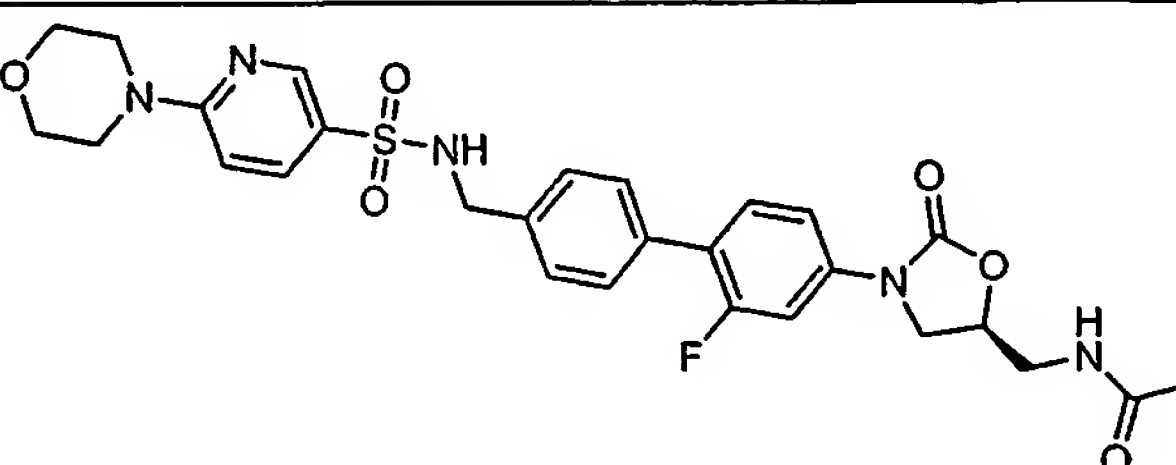
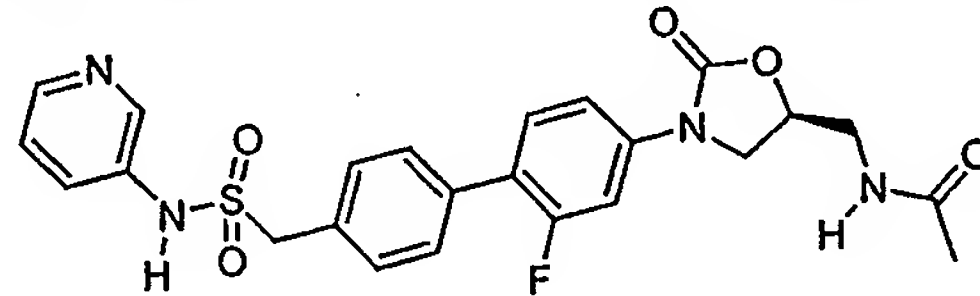
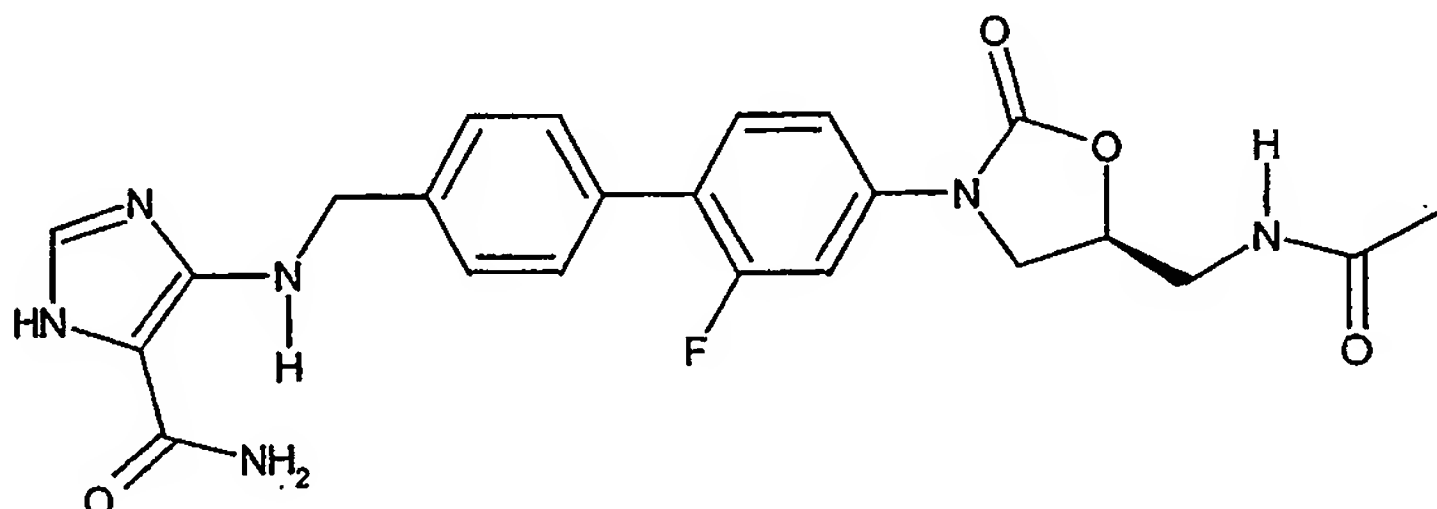
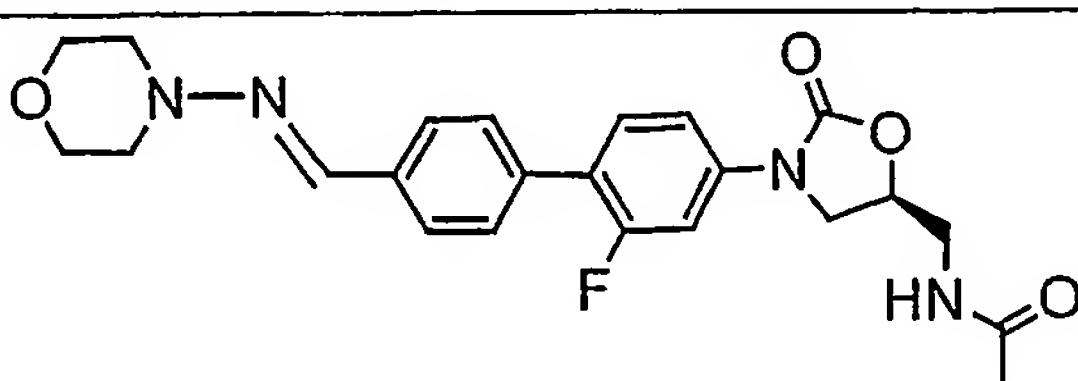
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	N-(3-{2-Fluoro-4'-[2-(3H-[1,2,3]triazol-4-ylsulfanyl)-ethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2027	
	N-(3-{4'-[1-(2-Dimethylamino-ethyl)-1H-tetrazol-5-ylsulfanylmethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2028	
	N-{3-[4'-(5-Amino-4H-[1,2,4]triazol-3-ylsulfanylmethyl)-2-fluoro-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2029	
	N-{3-[2-Fluoro-4'-([1,3,4]thiadiazol-2-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2030	
	N-{3-[2-Fluoro-4'-(thiazol-2-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2031	
	N-{3-[2-Fluoro-4'-(4-methyl-thiazol-2-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

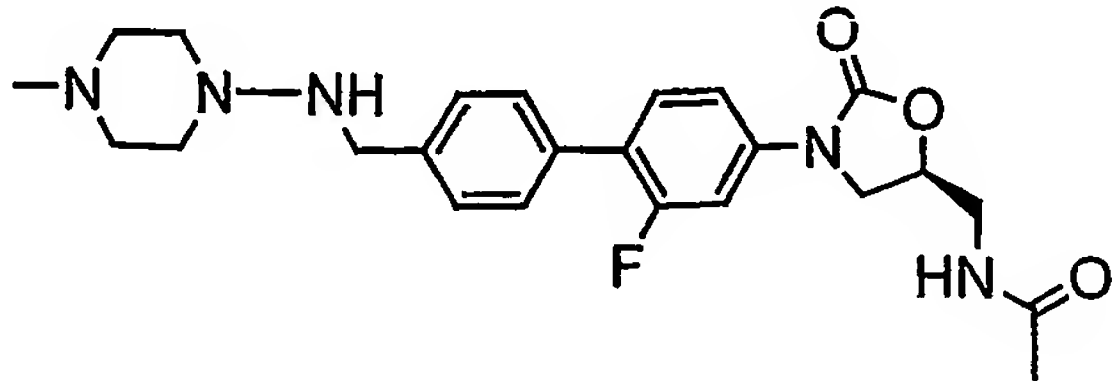
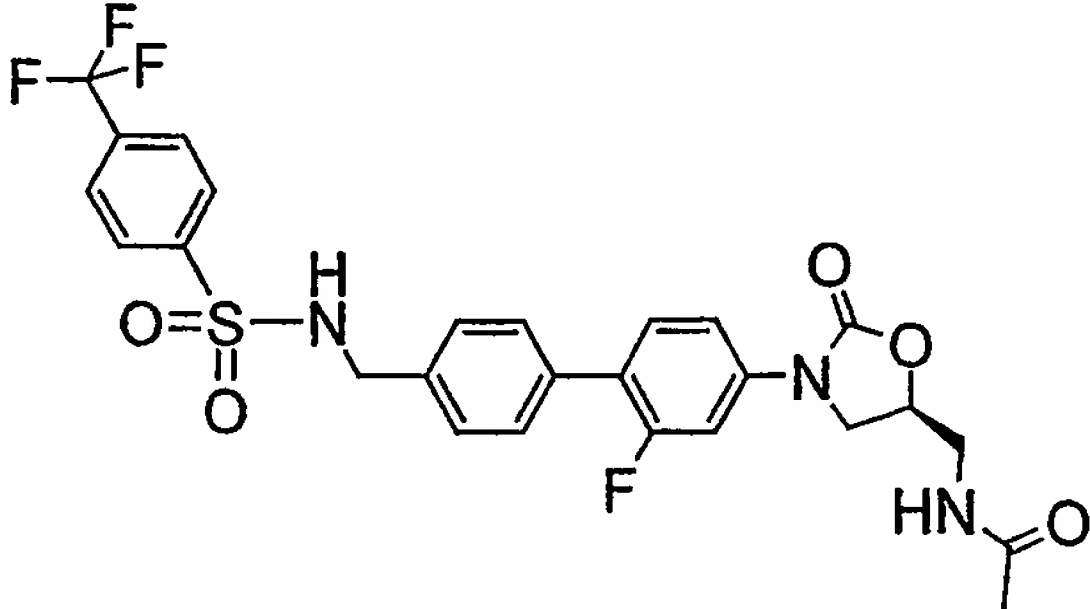
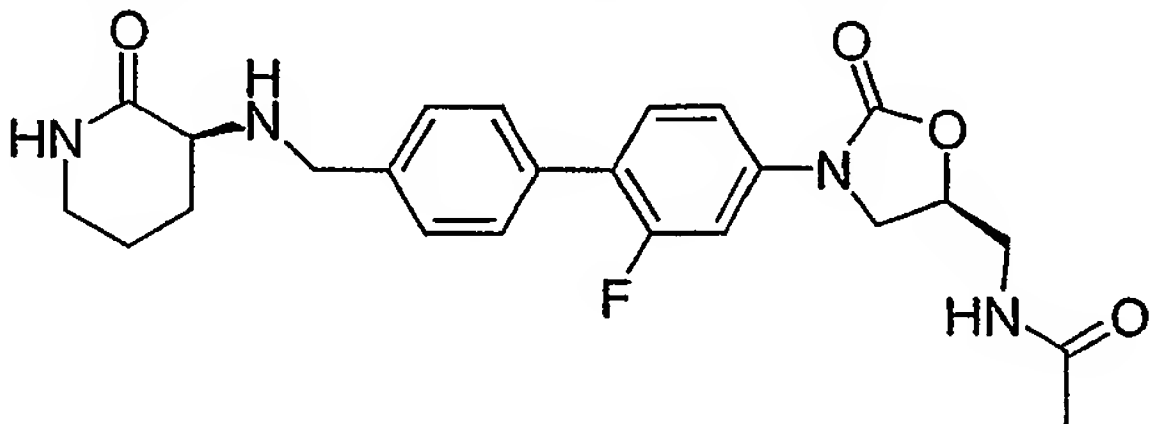
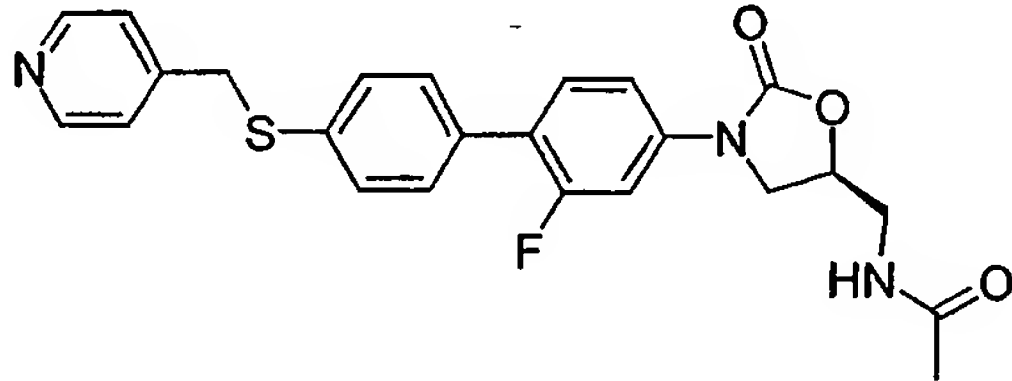
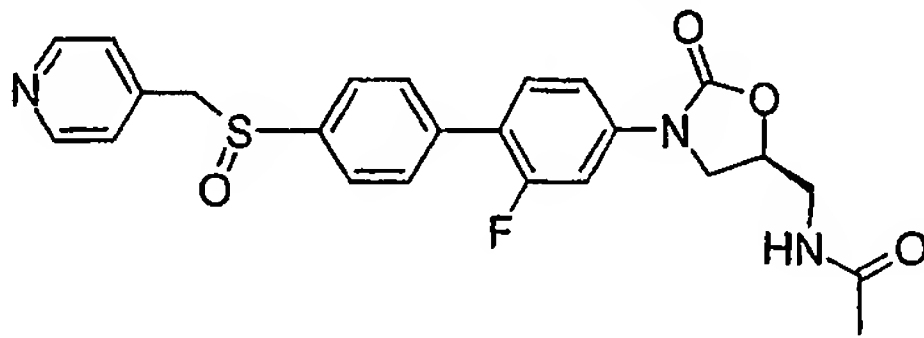
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	N-{3-[2-Fluoro-4'-(1H-imidazol-2-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2033	
	N-{3-[2-Fluoro-4'-(2-methyl-2H-[1,2,4]triazol-3-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2034	
	N-{3-[2-Fluoro-4'-(2-methyl-2H-[1,2,4]triazol-3-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2035	
	N-{3-[2-Fluoro-4'-(1,3,4-thiadiazole-2-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2036	
	N-{3-[2-Fluoro-4'-(thiazole-2-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

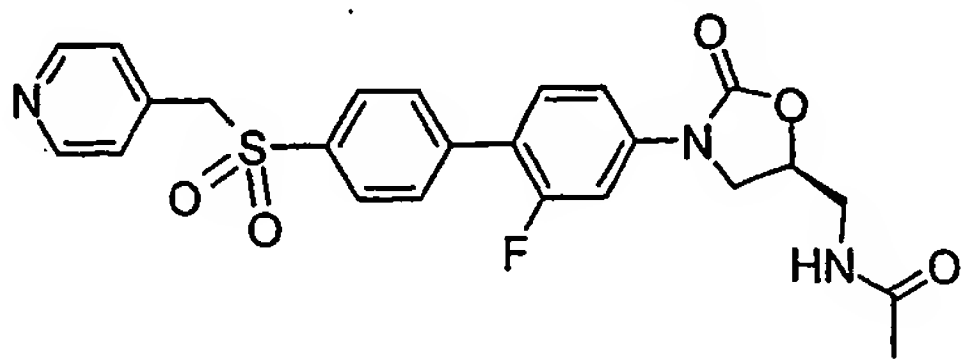
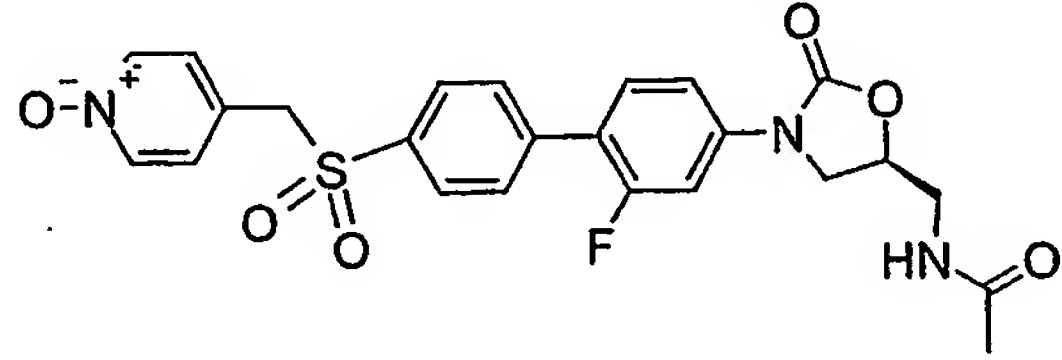
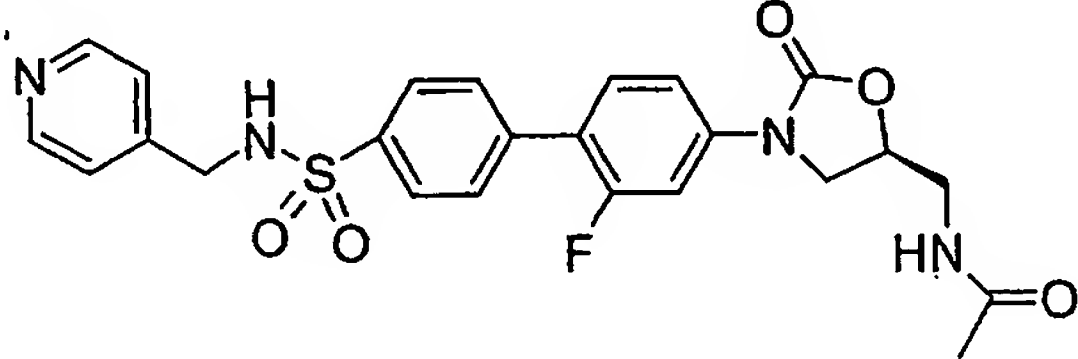
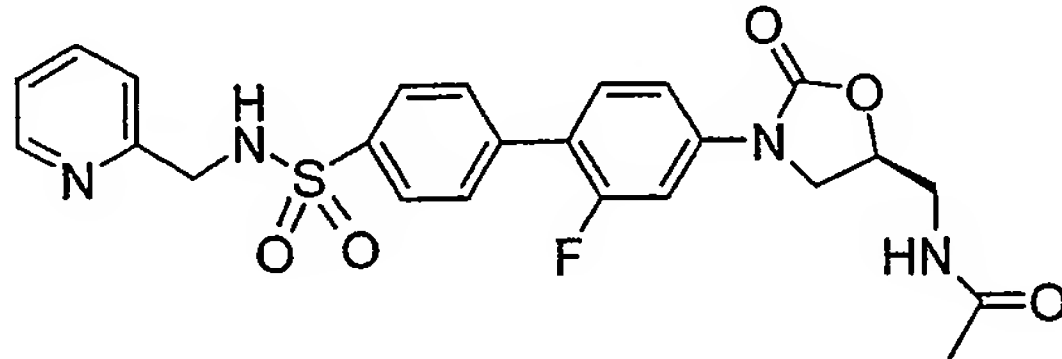
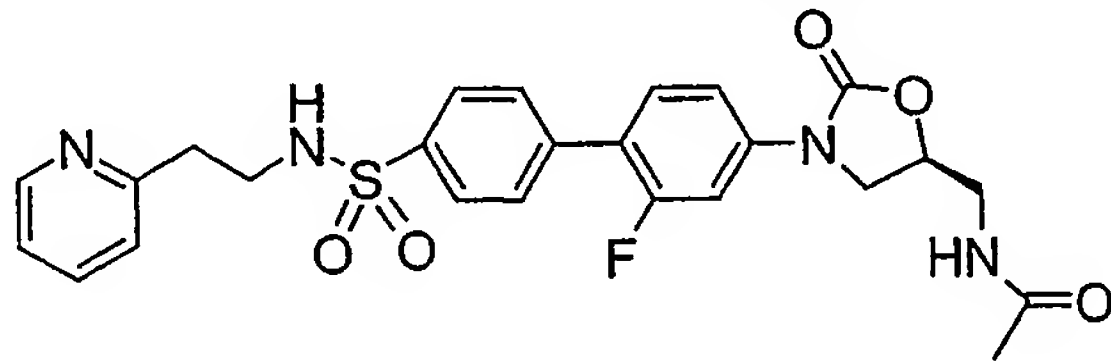
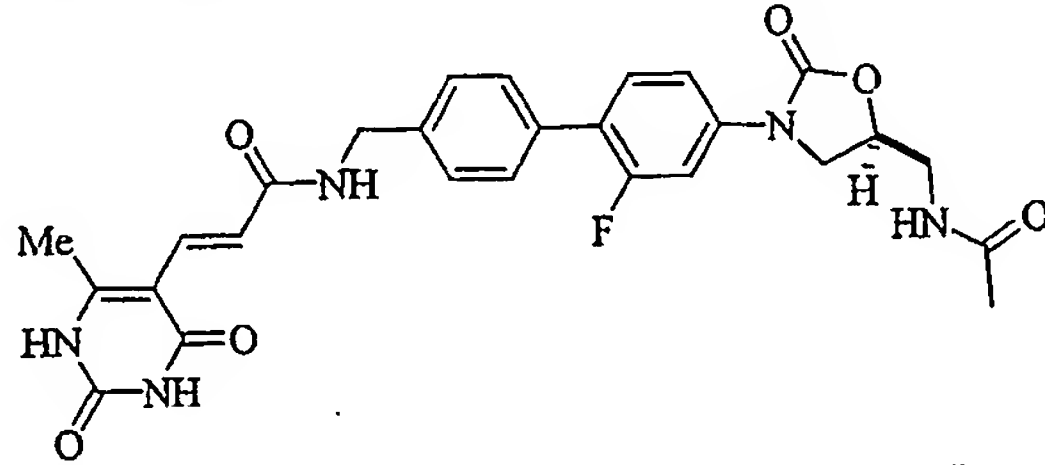
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	N-{3-[2-Fluoro-4'-(4-methyl-thiazole-2-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2038	
	N-{3-[2-Fluoro-4'-(1H-imidazole-2-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2039	
	N-{3-[2-Fluoro-4'-(2-methyl-2H-[1,2,4]triazole-3-sulfinylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2040	
	N-(3-{3-Fluoro-4-[6-(3H-[1,2,3]triazol-4-yl)sulfanylmethyl]-pyridin-3-yl]-phenyl)-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2041	
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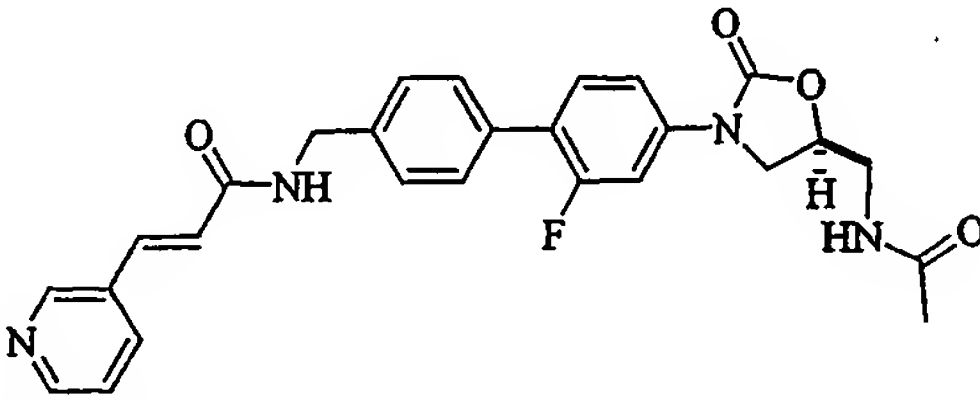
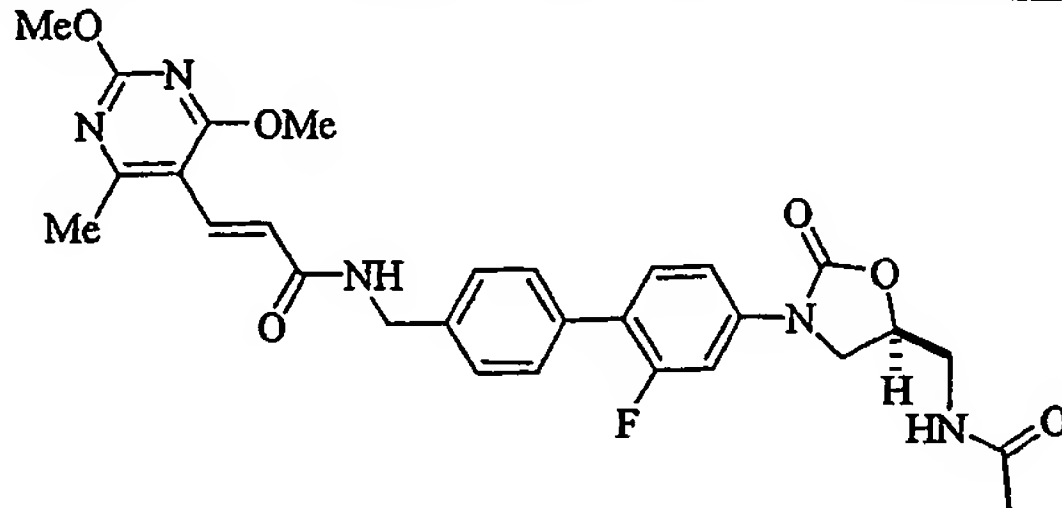
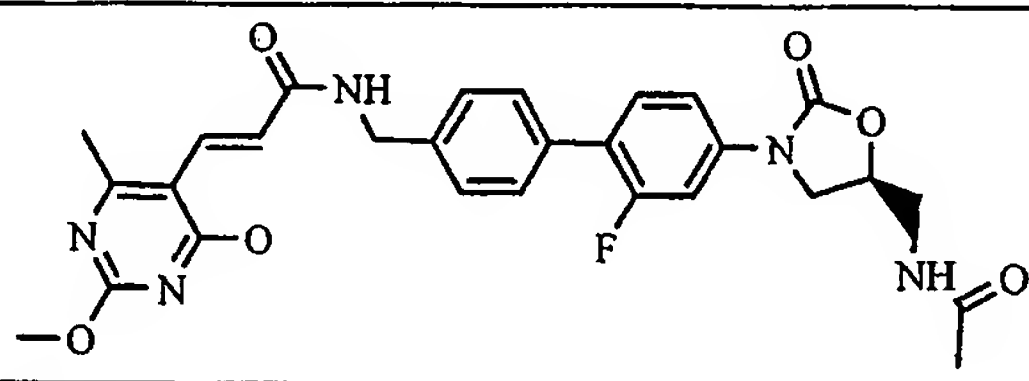
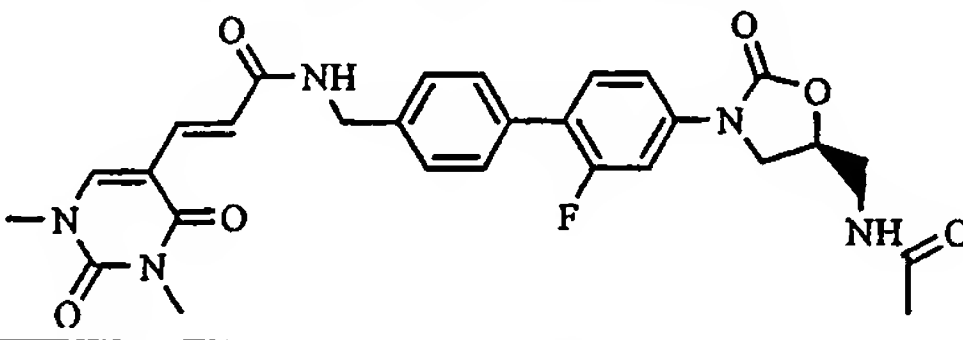
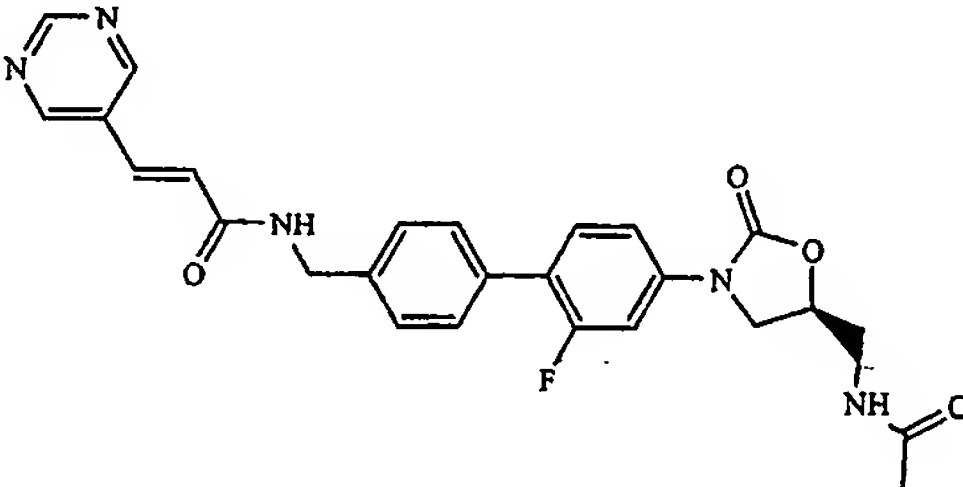
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	N-(3-{2-Fluoro-4'-[(4-trifluoromethyl-pyrimidin-2-yl)-hydrazonomethyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2043	
	N-(3-{2-Fluoro-4'-[(1-methyl-1H-imidazole-4-sulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2044	
	N-(3-{2-Fluoro-4'-[(6-morpholin-4-yl-pyridine-3-sulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2045	
	N-{3-[2-Fluoro-4'-(pyridin-3-ylsulfamoylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2046	
	N-{3-[2-Fluoro-4'-([1,2,4]triazol-4-ylaminomethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

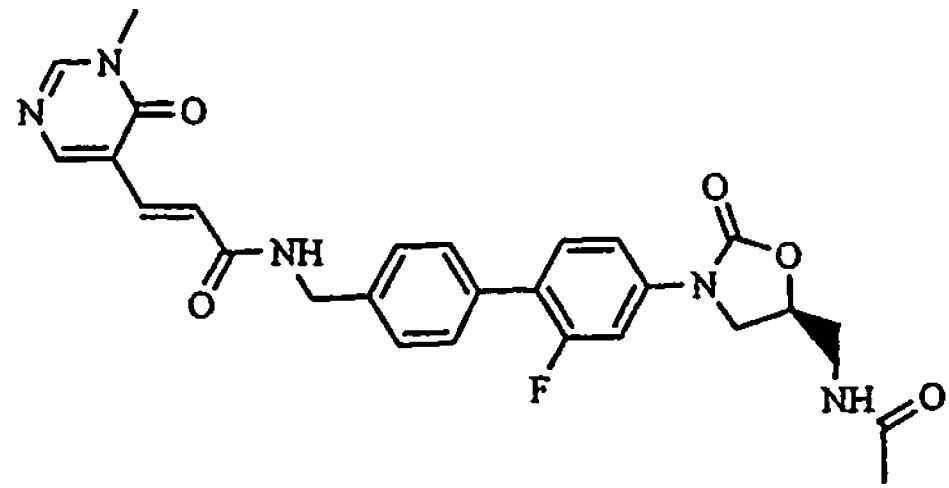
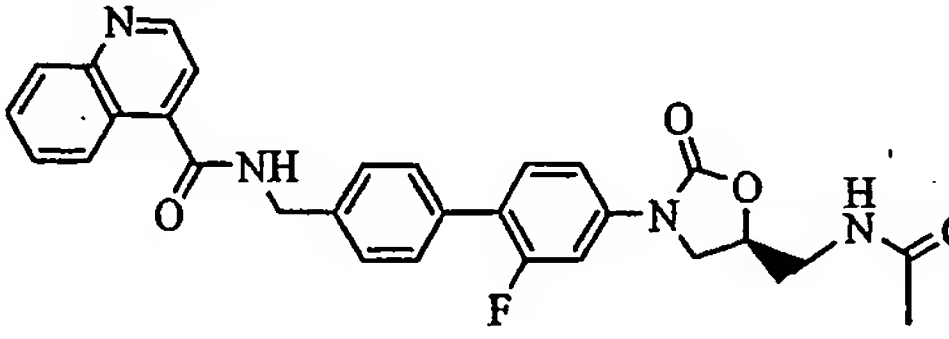
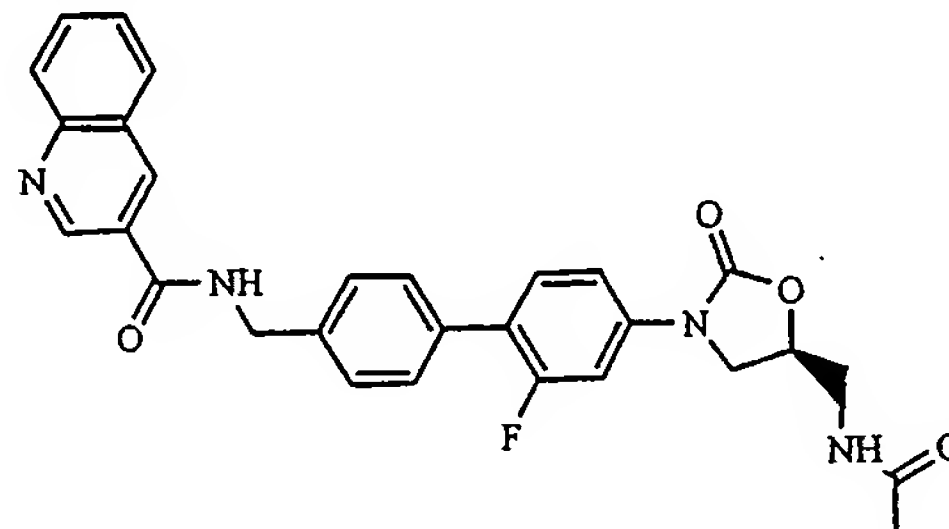
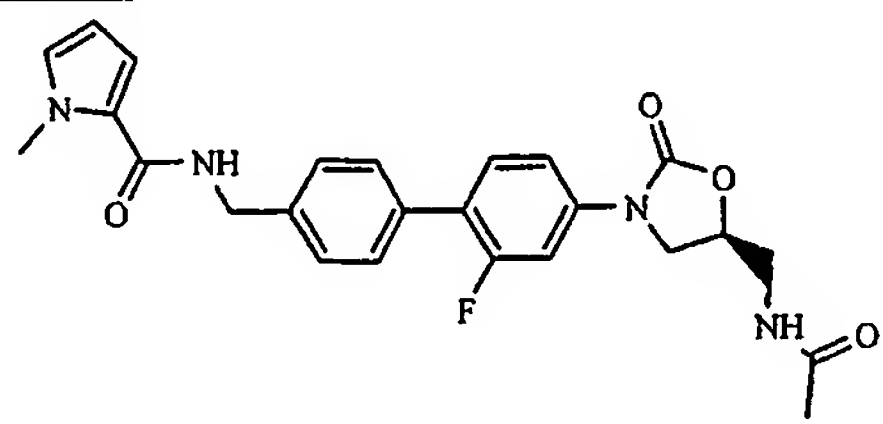
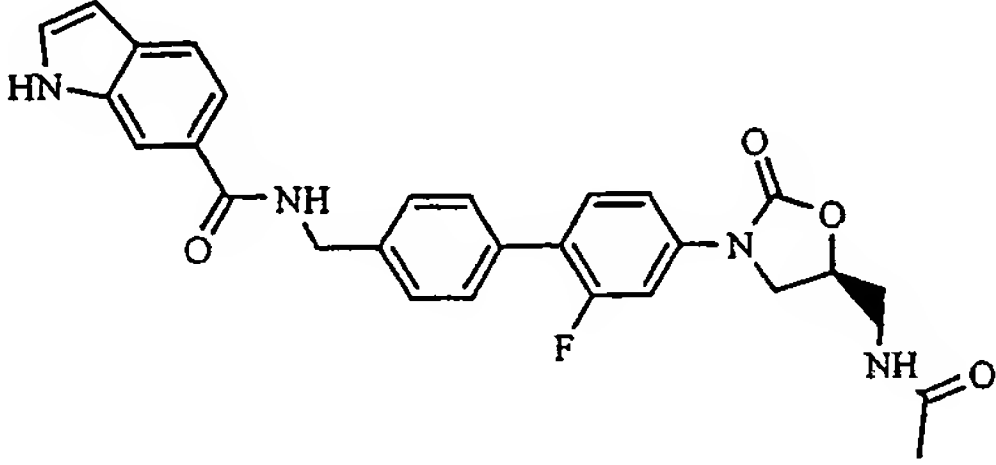
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	N-{3-[2-Fluoro-4'-(2H-[1,2,4]triazol-3-ylsulfanylmethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2048	
	N-{3-[2-Fluoro-4'-(N'-pyridin-2-yl-hydrazinomethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2049	
	N-(3-{4'-[N'-(4,5-Dihydro-1H-imidazol-2-yl)-hydrazinomethyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2050	
	N-{3-[2-Fluoro-4'-(isoxazol-3-ylaminomethyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
2051	

	N-(3-{2-Fluoro-4'-[(quinoline-8-sulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2052	
	N-(3-{2-Fluoro-4'-[(1-methyl-1H-imidazole-4-sulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2053	
	N-(3-{2-Fluoro-4'-[(6-morpholin-4-yl-pyridine-3-sulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2054	
	N-{3-[2-Fluoro-4'-pyridin-3-ylsulfamoylmethyl]-biphenyl-4-yl}2-oxo-oxazolidin-5-(S)-ylmethyl}acetamide
2055	
	5-({4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amino)-3H-imidazole-4-carboxylic acid amide
2056	
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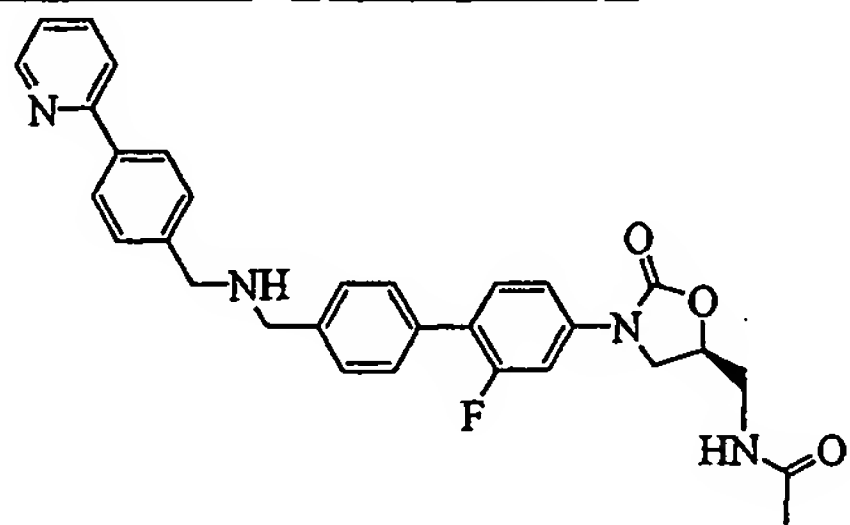
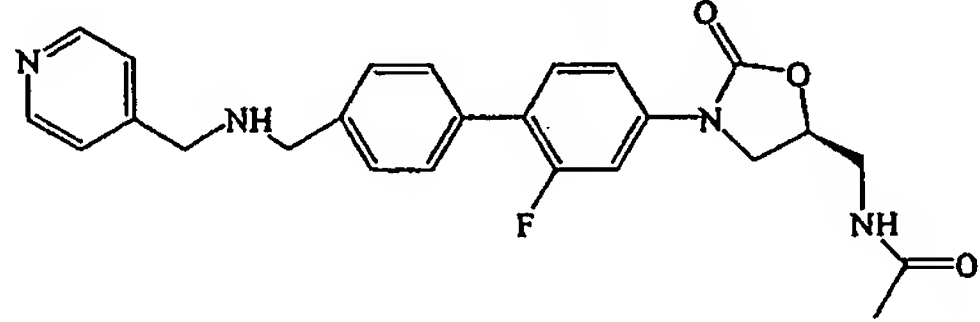
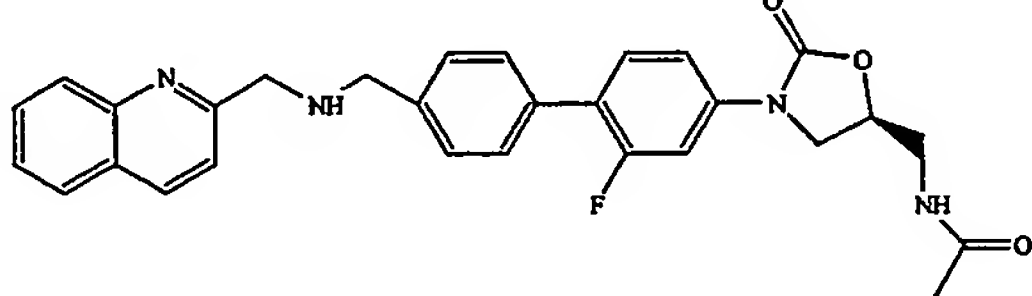
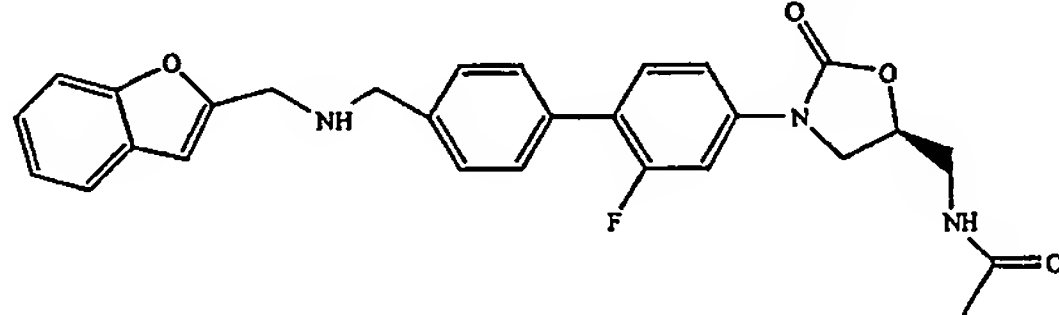
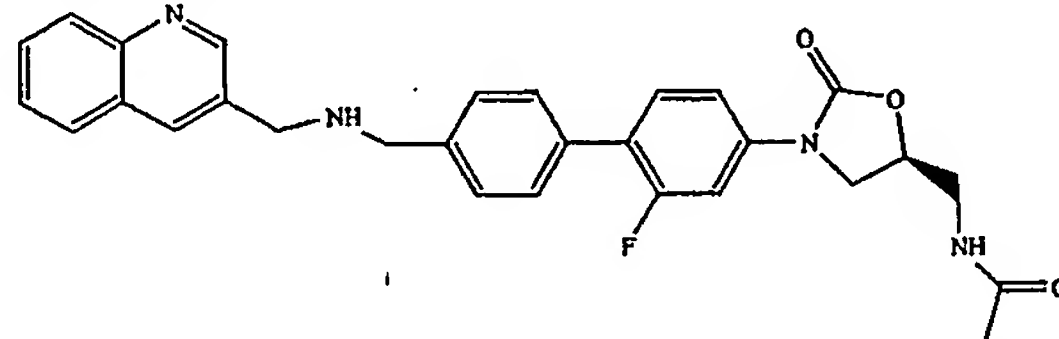
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	N-(3-{2-Fluoro-4'-[(4-methyl-piperazin-1-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2058	
	N-(3-{2-Fluoro-4'-[(4-trifluoromethyl-benzenesulfonylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
2059	
	N-(3-{2-Fluoro-4'-[(2-oxo-piperidin-3-(S)-ylamino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
3001	
	N-{3-[2-Fluoro-4'-(pyridin-4-ylmethylsulfanyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
3002	
	N-{3-[2-Fluoro-4'-(pyridin-4-ylmethanesulfinyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide

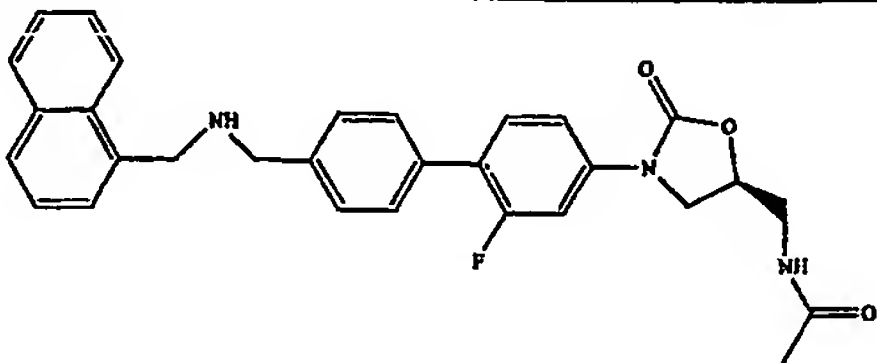
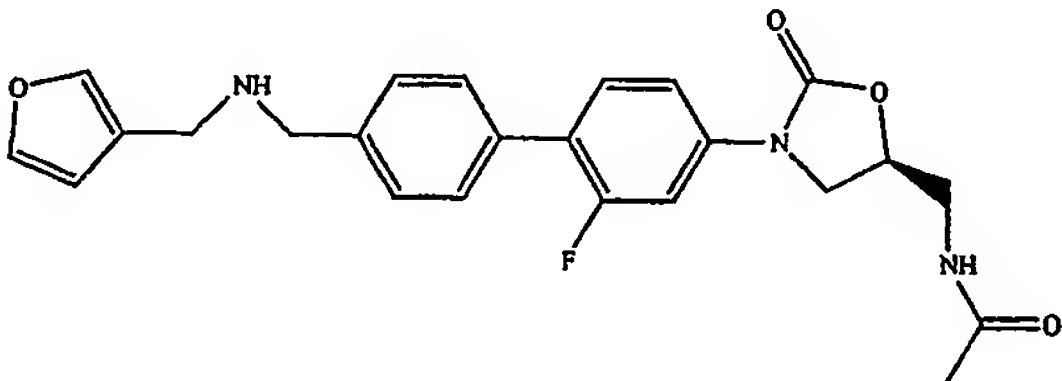
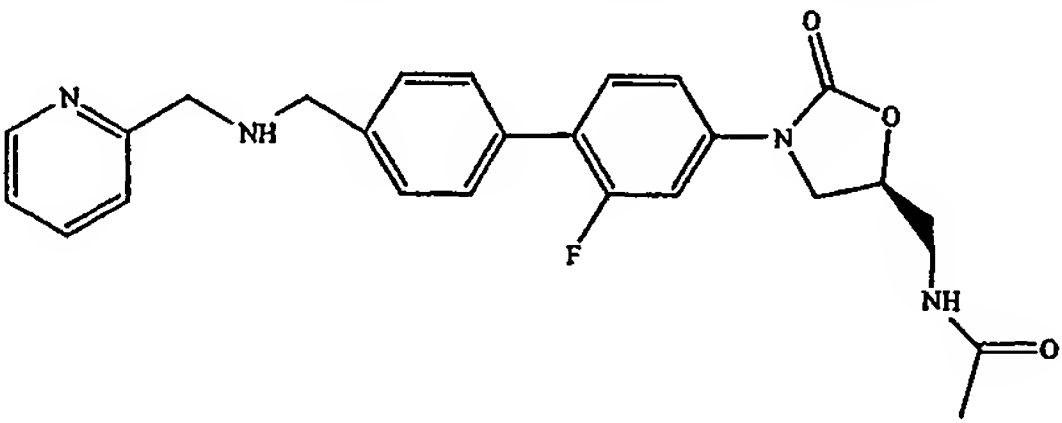
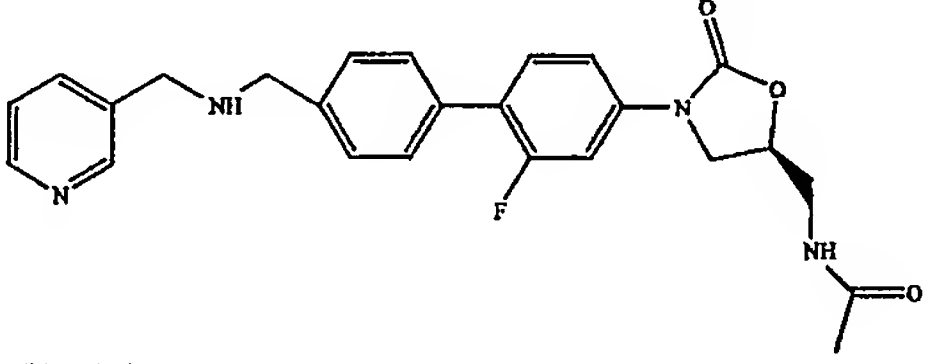
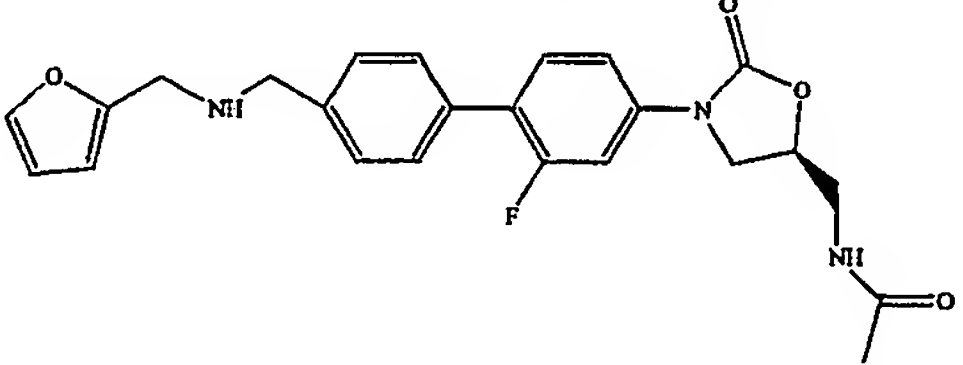
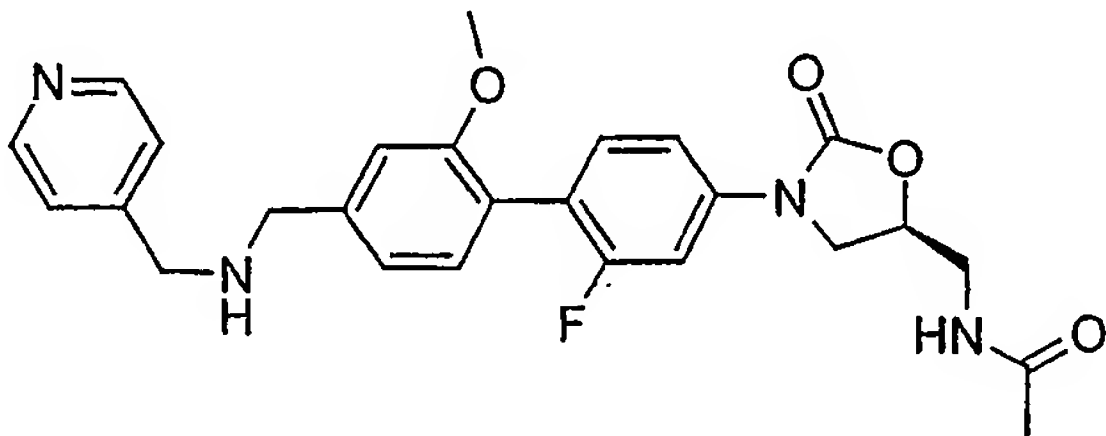
3003	
	N-{3-[2-Fluoro-4'-(pyridin-4-ylmethanesulfonyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
3004	
	N-{3-[2-Fluoro-4'-(1-oxy-pyridin-4-ylmethanesulfonyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
3005	
	N-(3-{2-Fluoro-4'-[(pyridin-4-ylmethyl)-sulfamoyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
3006	
	N-(3-{2-Fluoro-4'-[(pyridin-2-ylmethyl)-sulfamoyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
3007	
	N-{3-[2-Fluoro-4'-(2-pyridin-2-yl-ethylsulfamoyl)-biphenyl-4-yl]-2-oxo-oxazolidin-5-(S)-ylmethyl}-acetamide
4001	

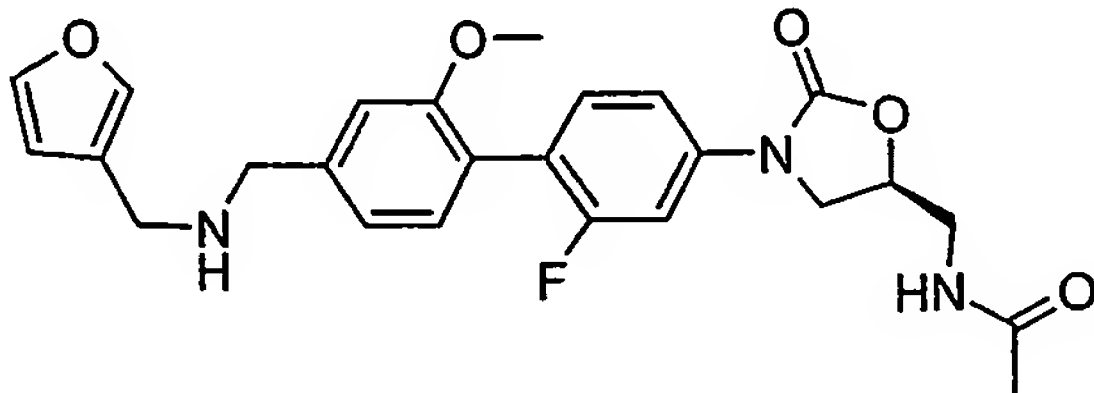
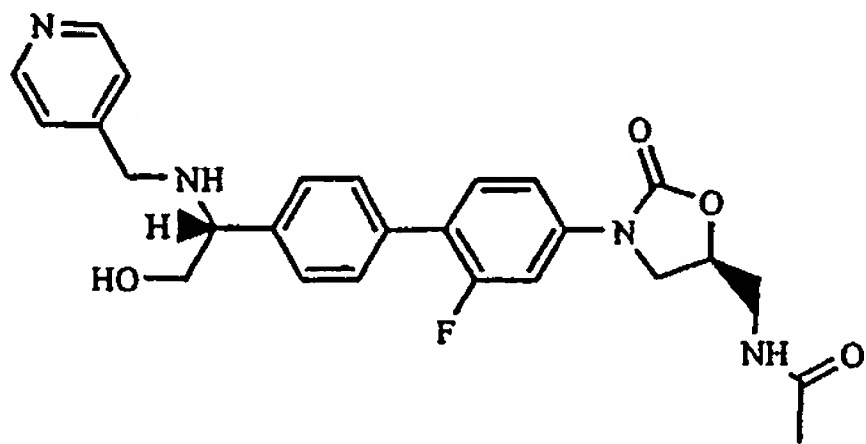
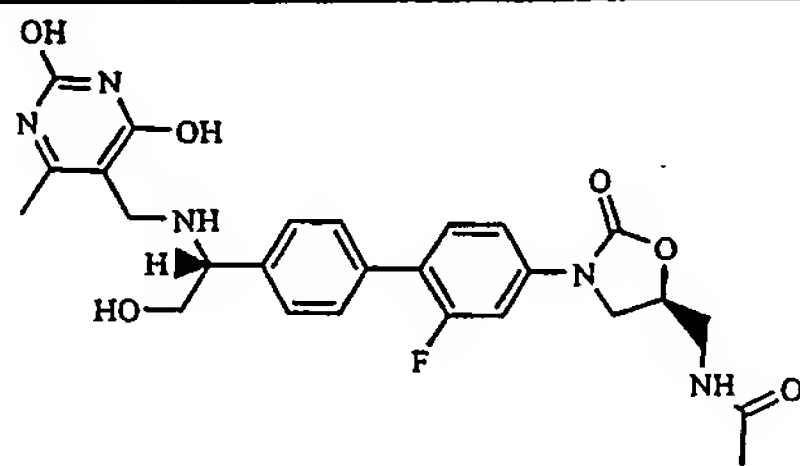
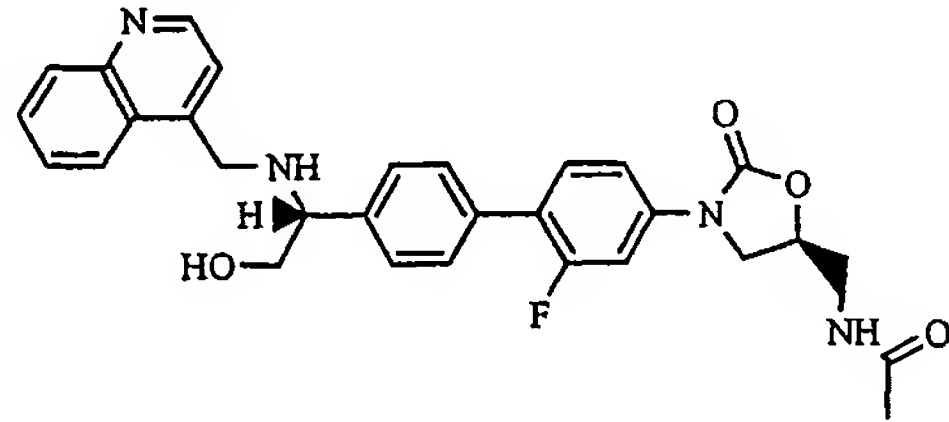
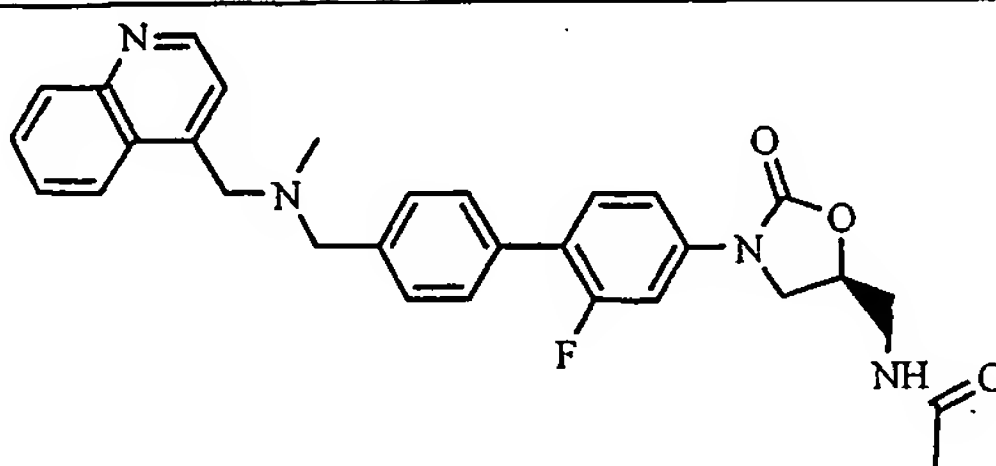
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-(6-methyl-2,4-dioxo-1,2,3,4-tetrahydro-pyrimidin-5-yl)-acrylamide
4002	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-pyridin-3-yl-acrylamide
4003	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-(2,4-dimethoxy-6-methyl-pyrimidin-5-yl)-acrylamide
4004	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-(4-hydroxy-2-methoxy-6-methyl-pyrimidin-5-yl)-acrylamide
4005	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-(1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydro-pyrimidin-5-yl)-acrylamide
4006	

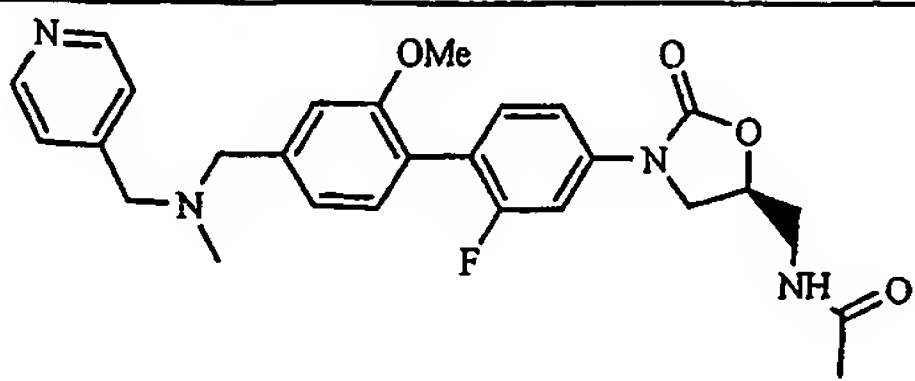
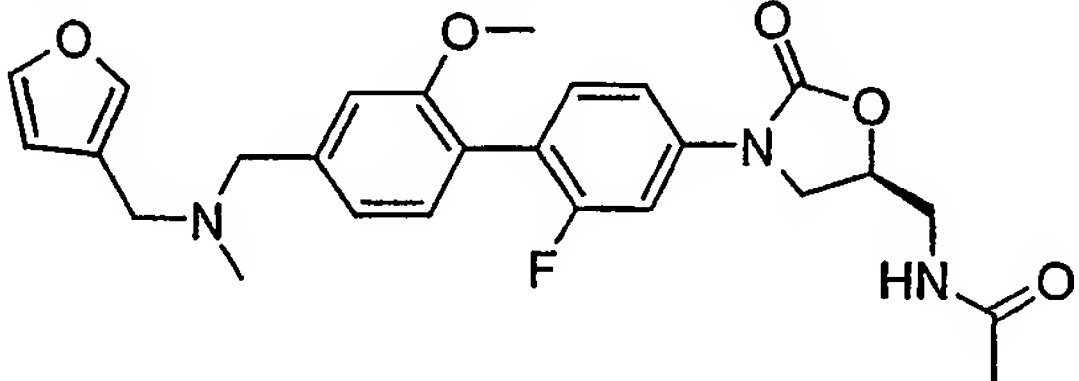
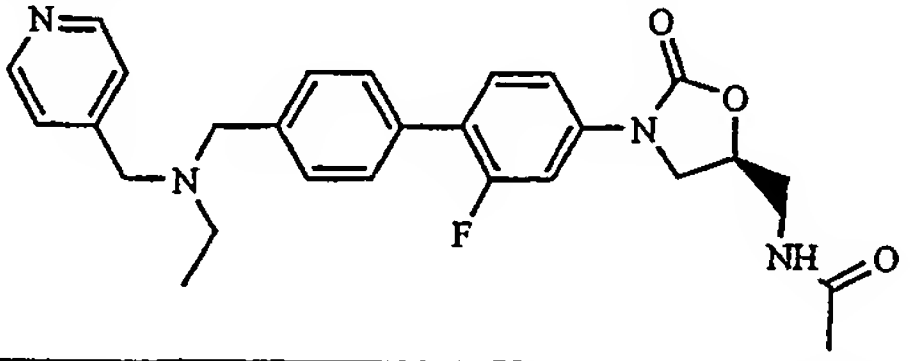
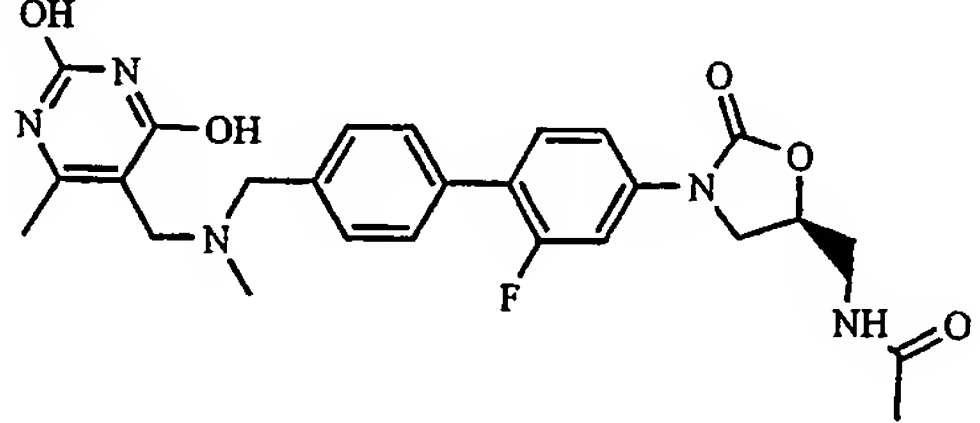
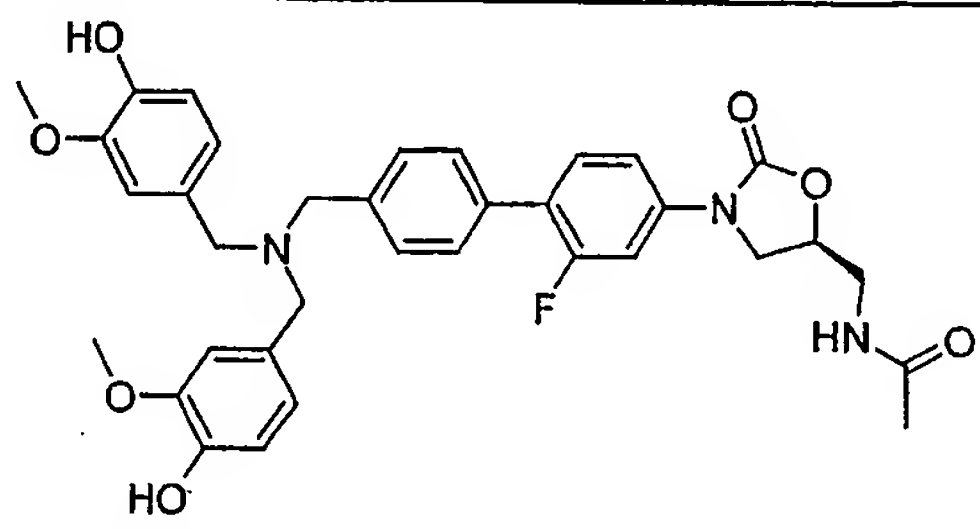
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-pyrimidin-5-yl-acrylamide
4007	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-(1-methyl-6-oxo-1,6-dihydro-pyrimidin-5-yl)-acrylamide
4008	
	Quinoline-4-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4009	
	Quinoline-3-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4010	
	1-Methyl-1H-pyrrole-2-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4011	

	1H-Indole-6-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4012	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-3-methanesulfonyl-benzamide
4013	
	N-{4'-[5-(S)-(Acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-4-fluoro-benzamide
4014	
	Benzo[1,3]dioxole-5-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4015	
	5-Methoxy-1H-indole-2-carboxylic acid {4'-[5-(S)-(acetylamino-methyl)-2-oxo-oxazolidin-3-yl]-2'-fluoro-biphenyl-4-ylmethyl}-amide
4016	

	N-[3-(2-Fluoro-4'-{[(quinolin-4-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4017	
	N-[3-(2-Fluoro-4'-[(4-pyridin-2-yl-benzylamino)-methyl]-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4018	
	N-[3-(2-Fluoro-4'-{[(pyridin-4-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4019	
	N-[3-(2-Fluoro-4'-{[(quinolin-2-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4020	
	N-[3-(4'-{[(Benzofuran-2-ylmethyl)-amino]-methyl}-2-fluoro-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4021	
	N-[3-(2-Fluoro-4'-{[(quinolin-3-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide

4022	
	N-[3-(2-Fluoro-4'-{[(naphthalen-1-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4023	
	N-[3-(2-Fluoro-4'-{[(furan-3-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4024	
	N-[3-(2-Fluoro-4'-{[(pyridin-2-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4025	
	N-[3-(2-Fluoro-4'-{[(pyridin-3-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4026	
	N-[3-(2-Fluoro-4'-{[(furan-2-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4027	

	N-[3-(2-Fluoro-2'-methoxy-4'-{[(pyridin-4-ylmethyl)-amino]-methyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4028	
	N-[3-(2-Fluoro-4'-{[(furan-3-ylmethyl)-amino]-methyl}-2'-methoxy-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4029	
	N-[3-(2-Fluoro-4'-{2-hydroxy-1-(R)-[(pyridin-4-ylmethyl)-amino]-ethyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4030	
	N-[3-(4'-{1-(R)-[(2,4-Dihydroxy-6-methyl-pyrimidin-5-ylmethyl)-amino]-2-hydroxy-ethyl}-2-fluoro-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4031	
	N-[3-(2-Fluoro-4'-{2-hydroxy-1-(R)-[(quinolin-4-ylmethyl)-amino]-ethyl}-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4032	

	N-(3-{2-Fluoro-4'-[(methyl-quinolin-4-ylmethyl-amino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
4033	
	N-(3-{2-Fluoro-2'-methoxy-4'-[(methyl-pyridin-4-ylmethyl-amino)-methyl]-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
4034	
	N-(3-{2-Fluoro-4'-[(furan-3-ylmethyl-methyl-amino)-methyl]-2'-methoxy-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
4035	
	N-(3-{4'-[(Ethyl-pyridin-4-ylmethyl-amino)-methyl]-2-fluoro-biphenyl-4-yl}-2-oxo-oxazolidin-5-(S)-ylmethyl)-acetamide
4036	
	N-[3-(4'-{[(2,4-Dihydroxy-6-methyl-pyrimidin-5-ylmethyl)-methyl-amino]-methyl}-2-fluoro-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide
4037	
	N-[3-(4'-{[Bis-(4-hydroxy-3-methoxy-benzyl)-amino]-methyl}-2-fluoro-biphenyl-4-yl)-2-oxo-oxazolidin-5-(S)-ylmethyl]-acetamide